JVC

SERVICE MANUAL

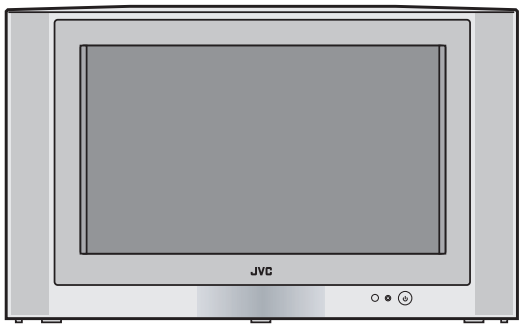
COLOUR TELEVISION

AV-28X37SUE, AV-28X37HKE, AV-28X35HKE, AV-28X37HIE, AV-28H35SUE, AV-28H35BUE, AV-28X35HUE

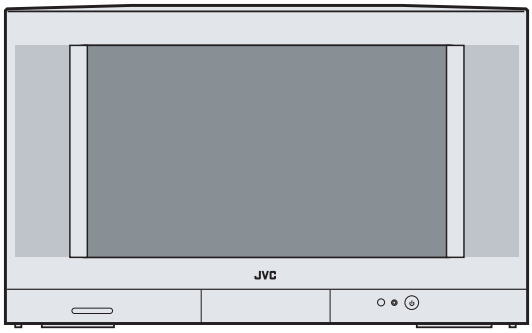
BASIC CHASSIS
ML

InteriArt
Natural Vision
T-V LINK

<RM-C50H>
<RM-C54H>
<RM-C55H>



AV-28X35HKE
AV-28H35SUE
AV-28H35BUE
AV-28X35HUE



AV-28X37SUE
AV-28X37HKE
AV-28X37HIE

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No.52106
2003/03

SPECIFICATION

Item		Content			
		AV-28H35SUE AV-28H35BUE	AV-28X37SUE AV-28X35HUE	AV-28X37HKE AV-28X35HKE	AV-28X37HIE
Dimensions (W x H x D)		85.4cm x 50.8cm x 49cm	85.4cm x 50.8cm x 49.3cm		
Mass		36.3kg	39.0kg		
TV RF System		CCIR (B/G, D/K, I , L/L')		CCIR (I)	
Colour System		PAL / SECAM / NTSC (Only in EXT mode)		PAL	
Stereo System		A2 (B/G, D/K) / NICAM (B/G, I, D/K, L)		NICAM (I)	
Teletext System		FLOF (Fastext) TOP (German system) WST(World standard system)		FLOF (Fastext) WST(World standard system)	
Receiving Frequency	VHF	47MHz ~ 470MHz		Not avairable	47MHz ~ 470MHz
	UHF	470MHz ~ 862MHz			
	Frenc CATV	116MHz ~ 172MHz / 220MHz ~ 469MHz		-	
Intermediate Frequency	VIF Carrier	38.9MHz (B/G, D/K, I , L) / 33.95MHz (L')		38.9MHz (I)	
	SIF Carrier	33.4MHz (5.5MHz:B/G) / 32.9MHz (6.0MHz:I) / 32.4MHz (6.5MHz:L, D/K) / 40.45MHz (6.5MHz:L')		32.9MHz (6.0MHz:I)	
Colour Sub Carrier Frequency	PAL	4.43MHz			
	SECAM	4.40625MHz / 4.25MHz		-	
	NTSC	3.58MHz / 4.43MHz		3.58MHz	
Power Input		AC220V ~ AC240V, 50Hz			
Power Consumption		185W(Max) / 115W(Avg), standby : 2.5W			
Aerial Input Terminal		75ohm unbalanced, coaxial			
Picture Tube		Visible size : 66cm, Measured diagonally H : 58.3cm x V : 33.0cm			
High Voltage		31.0kV (+1kV / -1.5kV) (CRT cutoff, FULL mode)			
Speaker		13cm x 6.5cm oval type x 2			
Audio Power Output		10W + 10W			
EXT-1 / EXT-2 / EXT-3 (Input / Output)		21-pin Euro connector (SCART socket)			
EXT-4 (Input)	Video	1V(p-p) 75ohm (RCA pin jack)			
	Audio (L/R)	500mV(rms) (-4dBs), High impedance (RCA pin jack)			
	S-Video	Y : 1V(p-p) positive (negative sync provided, when terminated with 75ohm) C : 0.3V(p-p) (Burst signal, when terminated with 75ohm)			
AUDIO OUT (Variable)		0~1000mV(rms), Low impedance (RCA pin jack x 2)			
Headphone Jack		Stereo mini jack (Ø3.5mm)			
Remote Control Unit		RM-C54H (AAA/R03 dry battery x 2) [Exept AV-28H35BUE] RM-C50H (AAA/R03 dry battery x 2) [Only AV-28H35BUE]		RM-C55H (AAA/R03 dry battery x 2)	

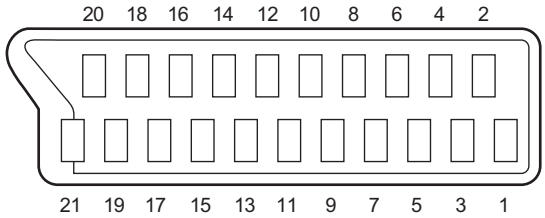
Design & specifications are subject to change without notice.

21-pin Euro connector (SCART) : EXT-1/EXT-2/EXT-3

PinNo.	Signal Designation	Matching Value	EXT-1	EXT-2	PinNo.	EXT-3
1	AUDIO R output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)	22	NC
2	AUDIO R input	500mV(rms) (Nominal), High impedance	Used (R1)	Used (R2)	23	Used (R3)
3	AUDIO L output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)	24	Not used
4	AUDIO GND		Used	Used	25	Used
5	GND (B)		Used	Used	26	Used
6	AUDIO L input	500mV(rms) (Nominal), High impedance	Used (L1)	Used (L2)	27	Used (L3)
7	B input	$700mV_{(B-W)}$, 75 ohm	Used	Used	28	Not used
8	FUNCTION SW (SLOW SW)	Low : 0V-3V, High : 8V-12V, High impedance	Used	Used	29	Used
9	GND (G)		Used	Used	30	Used
10	SCL / T-V LINK		Not used	Used (SCL2 / TV-LINK)	31	Not used
11	G input	$700mV_{(B-W)}$, 75 ohm	Used	Used	32	Not used
12	SDA		Not used	Used(SDA2)	33	Not used
13	GND (R)		Used	Used	34	Used
14	GND (YS)		Used	Not used	35	Not used
15	R / C input	R : $700mV_{(B-W)}$, 75 ohm C : $300mV_{(P-P)}$, 75 ohm	Used (R)	Used (C2/R)	36	Used (C3)
16	Ys input (FAST SW)	Low : 0V-0.4V, High : 1V-3V, 75 ohm	Used	Used	37	Not used
17	GND (VIDEO output)		Used	Used	38	Used
18	GND (VIDEO input)		Used	Used	39	Used
19	VIDEO output	$1V_{(P-P)}$ (Negative sync), 75 ohm	Used (TV OUT)	Used (LINE OUT)	40	Not used
20	VIDEO / Y input	$1V_{(P-P)}$ (Negative sync), 75 ohm	Used	Used	41	Used
21	COMMON GND		Used	Used	42	Used

(P-P= Peak to Peak, B-W= Blanking to white peak)

[Pin assignment]



SECTION 1
PRECAUTIONS

1.1 SAFETY PRECAUTIONS [EXCEPT FOR UK]

(1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual**. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

(4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED (NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND.
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.).
If above note will not be kept, a fuse or any parts will be broken.

(5) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).

(6) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

(7) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

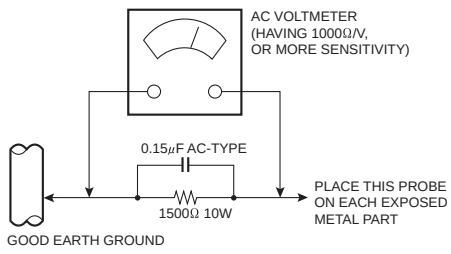
(8) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced.
Always use the manufacturer's replacement components.

(9) **Isolation Check**
(Safety for Electrical Shock Hazard)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/ audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

b) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500 ohm 10W resistor paralleled by a 0.15µF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



1.2 SAFETY PRECAUTIONS [FOR UK]

(1) The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
(2) Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
(3) Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.
(4) The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

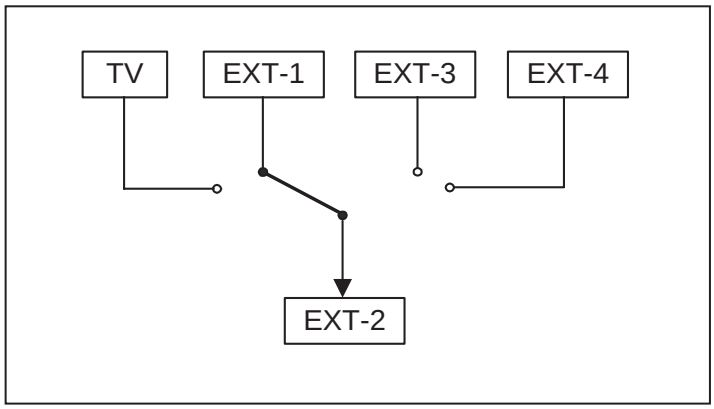
WARNING

(1) The equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

- New chassis design enable use of an interactive on screen control.
- The TELETEXT SYSTEM has a built-in FASTEXT (UK system), TOP (German system) and WST (world standard system) system.
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism. In addition, BILINGUAL programs can be heard in their original language.
- Users can make VCR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure.



2.2 MAIN DIFFERENCE LIST

⚠	Part Name	AV-28X37SUE AV-28X35HUE AV-28H35SUE AV-28H35BUE	AV-28X37HKE AV-28X35HKE	AV-28X37HIE
⚠	MAIN PWB ASSY	SML-1002A-U2	SML-1902A-U2	SML-1002A-U2
⚠	MICOM&100Hz PWB ASSY	SML0Z001A-U2 [AV-28X37SUE / AV-28X35HUE] SML0Z002A-U2 [AV-28H35SUE / AV-28H35BUE]	SML0Z001A-U2	SML0Z001A-U2
⚠	FRONT CABINET ASSY	LC11562-001A-U [AV-28X37SUE] LC11313-008A-U [AV-28X35HUE] LC11313-007A-U [AV-28H35SUE] LC11313-009A-U [AV-28H35BUE]	LC11562-002A-U [AV-28X37HKE] LC11313-008A-U [AV-28X35HKE]	LC11562-002A-U
⚠	REAR COVER	LC11282-001C-U LC11282-002B-U [Only AV-28H35BUE]	LC11282-001C-U	LC11282-001C-U
	REMOTE CONTROL UNIT	RM-C54H-1C RM-C50H-1C [Only AV-28H35BUE]	RM-C55H-1C	RM-C55H-1C

2.3 DISASSEMBLY PROCEDURE

2.3.1 REMOVING THE REAR COVER

(1) Unplug the power cord.
(2) Remove the 13 screws **[A]** as shown in the Fig. 1.
(3) Withdraw the REAR COVER toward you.

2.3.2 REMOVING THE SIDE CONTROL JACK ASSEMBLY

- Remove the REAR COVER.
  (1) Remove the screw **[B]** as shown in the Fig.1.
  (2) While slightly raise the SIDE CONTROL JACK ASSY, remove the 2 claws under the SIDE CONTROL JACK ASSY.
  (3) Disconnect the connector **[F]** and **[K]** as shown in Fig. 2.

2.3.3 REMOVING THE SIDE CONTROL PWB

- Remove the REAR COVER.
- Remove the SIDE CONTROL JACK ASSY.
  (1) Remove the 3 claws **[C]** from back side of the side control jack assembly as shown in Fig. 2.
  (2) Pull out the SIDE CONTROL PWB.

2.3.4 REMOVING THE CHASSIS

- Remove the REAR COVER.
  (1) Slightly raise the both sides of the chassis by hand and remove the 2 claws under the both sides of the CHASSIS from the front cabinet.
  (2) Withdraw the CHASSIS backward.
  (If necessary, take off the wire clamp, connectors etc.)

2.3.5 REMOVING THE POWER & DEF. PWB

- Remove the REAR COVER.
- Remove the CHASSIS.
  (1) Remove the 3 screws **[D]** as shown in Fig. 1.
  (2) Remove the POWER & DEF. PWB upper.
  (If necessary, take off the wire clamp, connectors etc.)

2.3.6 REMOVING THE SIDE SPEAKER

- Remove the REAR COVER.
  (1) Remove the 2 screws **[E]**, and remove the SPEAKER ADAPTER as shown in Fig. 1.

  NOTE :
  When removing the screws **[E]** of the speaker holder remove the lower side screw first, and then remove the upper one.
  (2) Remove the 4 screws **[F]** attaching the SPEAKER.
  (3) Follow the same steps when removing the other hand SPEAKER.

2.3.7 REMOVING THE AV TERMINAL BOARD

- Remove the REAR COVER.
  (1) Remove the 3 screws **[G]** as shown in the Fig. 1.
  (2) Remove the 2 claws **[H]** under the CHASSIS as shown in Fig. 3.
  (3) Remove the AV TERMINAL BOARD slightly in the direction of arrow **[I]** as shown in Fig. 3.

2.3.8 CHECKING THE PW BOARD

- To check the back side of the PW Board.
  (1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
  (2) Erect the chassis vertically so that you can easily check the back side of the PW Board.

CAUTION:

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

2.3.9 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

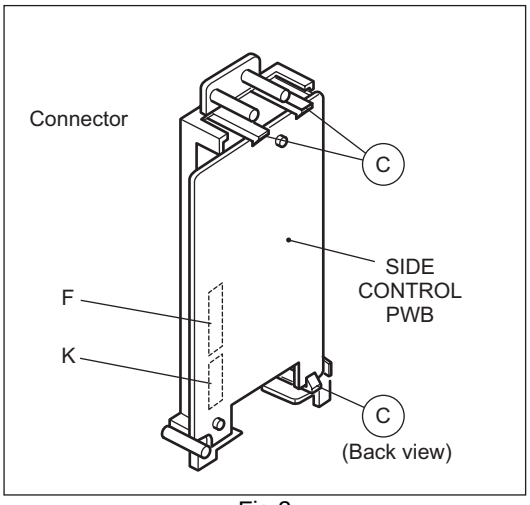


Fig.2

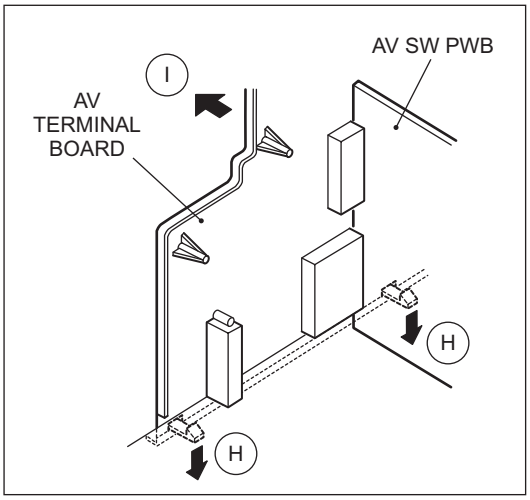
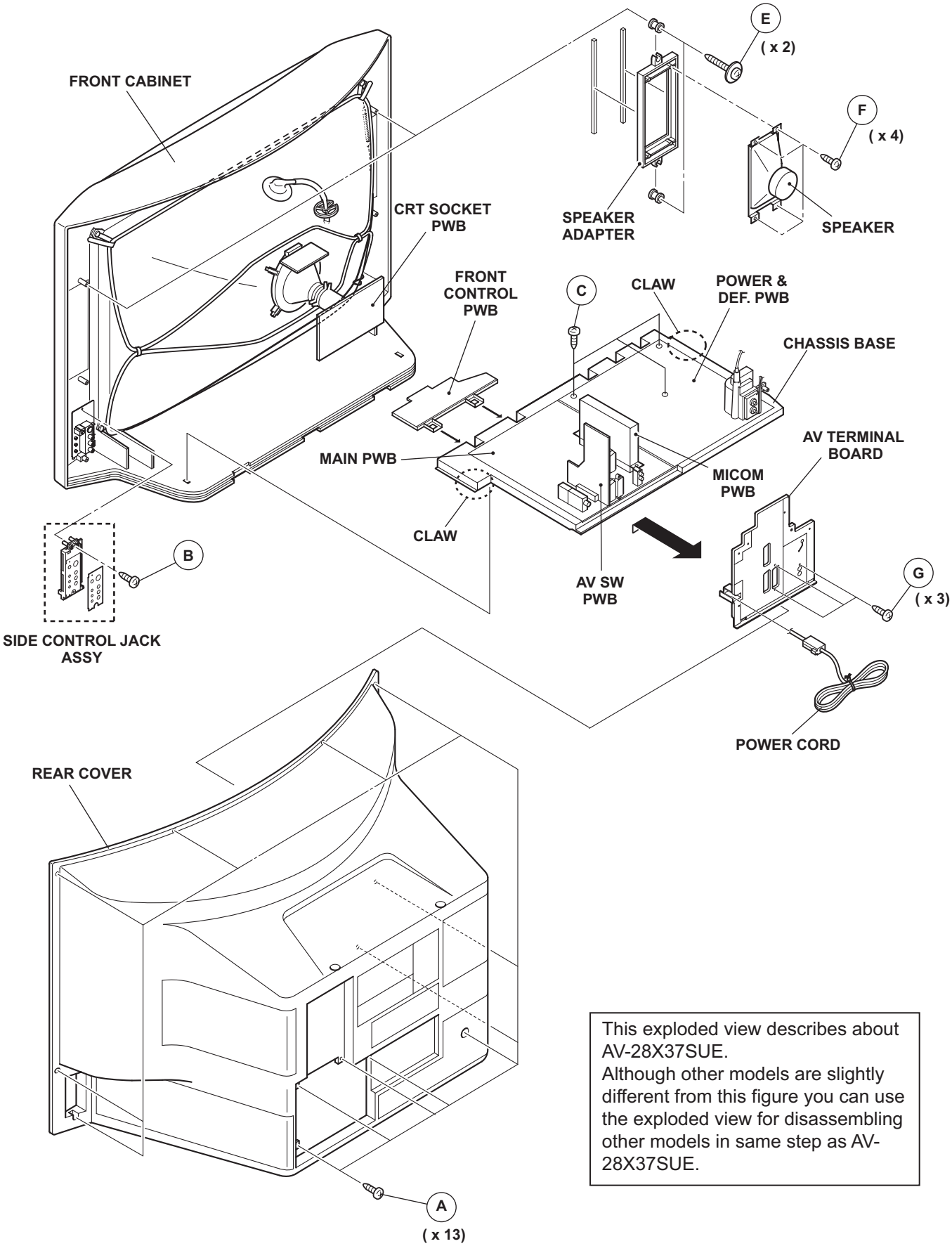


Fig.3



This exploded view describes about AV-28X37SUE.
Although other models are slightly different from this figure you can use the exploded view for disassembling other models in same step as AV-28X37SUE.

Fig.1

2.3.10 REMOVING THE CRT

Note:

- Replacement of the CRT should be performed by 2 or more persons.
- After removing the REAR COVER, CHASSIS etc.,

(1) Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig. 4).

(2) While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig. 5.

(3) Remove 4 screws marked by arrows with a box type screwdriver as shown in Fig. 5.

Note:

Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.

(4) After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front
surface of the cabinet) shown in Fig. 6.

Note:

- The CRT should be assembled according to the opposite sequence of its dismounting steps.
- The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm.

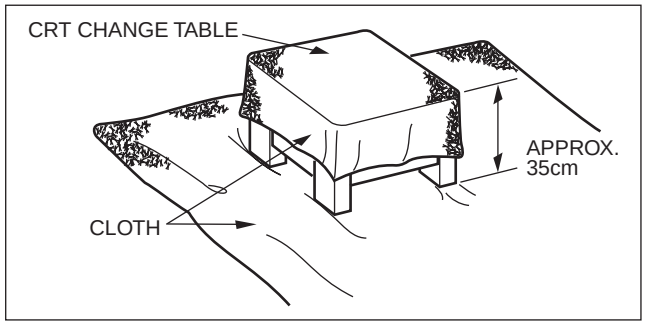


Fig.4

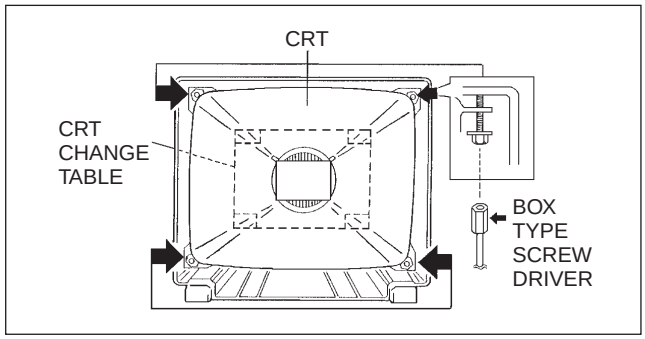


Fig.5

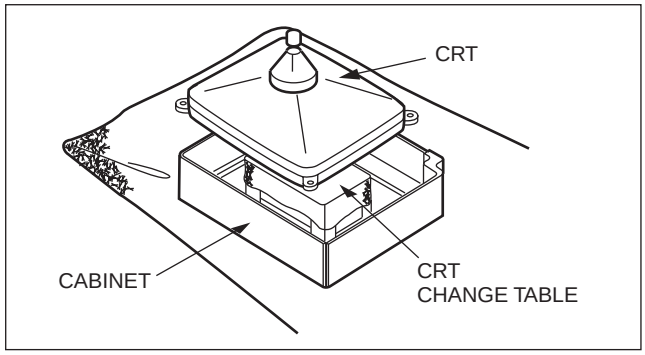


Fig.6

2.4 REPLACEMENT OF MEMORY IC

2.4.1 MEMORY IC

This TV use memory IC. In the memory IC, there are memorized data for correctly operating the video and deflection circuits. When replacing memory IC, be sure to use IC written with the initial values of data.

2.4.2 PROCEDURE FOR REPLACING MEMORY IC

PROCEDURE
1. Power off Switch the power off and unplug the power cord from the outlet
2. Replace IC. Be sure to use memory IC written with the initial data values.
3. Power on Plug the power cord into the outlet and switch the power on.
4. Check and set SYSTEM CONSTANT SET: *** It must not adjust without signal.** (1) Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously. (2) The SERVICE MENU screen of Fig. 1 will be displayed. (3) While the SERVICE MENU is displayed, press the INFORMATION key and MUTING key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed. (4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION -/+ key. (5) Press the MENU key to memorize the setting value. (6) Press the INFORMATION key twice, and return to the normal screen.
5. Setting of receive channels Set the receive channel. For setting, refer to the OPERATING INSTRUCTIONS.
6. User settings Check the user setting values of Table 2, and if setting value is different, set the correct value. For setting, refer to the OPERATING INSTRUCTIONS.
7. Setting of SERVICE MENU Verify the setting items of the SERVICE MENU of Table 3, and reset where necessary. For setting, refer to the SERVICE ADJUSTMENTS.

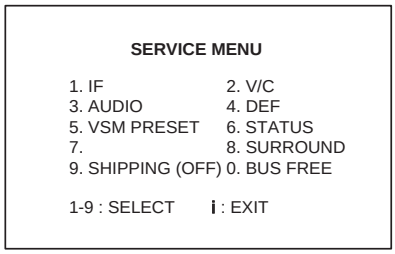


Fig.1

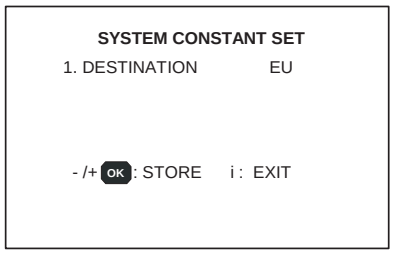


Fig.2

NAME OF REMOTE CONTROL KEY

Names of key	key
INFORMATION	
MUTING	
MENU	
FUNCTION UP/DOWN	
FUNCTION -/+	

2.4.3 SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

Setting item	Setting content	Setting value		
		AV-28X37SUE AV-28X35HUE AV-28H35SUE AV-28H35BUE	**AV-28X37HIE**	**AV-28X37HKE AV-28X35HKE**
DESTINATION	EU→EK→EI	EU	EI	EK
CRT TYPE	16:9 → 4:3	16:09	16:09	16:09
PICTURE TILT	NO → YES	NO	NO	NO
POWER BASS	NO → YES	YES (X series)	YES	YES
		NO (H series)		
SPATIAL SURR	NO → YES	YES (X series)	YES	YES
		NO (H series)		
PIC&TEXT	NO → YES	YES (X series)	YES	YES
		NO (H series)		
PROGRESSIVE	NO → YES	YES (X series)	YES	YES
		NO (H series)		

2.4.4 USER SETTING VALUES (TABLE 2)

PICTURE SETTING		**SOUND SETTING**	
PICTURE MODE	BRIGHT	BASS	Center
CONTRAST / BRIGHT SHARP / COLOUR / HUE	Refer to VSM PRESET	TREBLE	Center
		BALANCE	Center
COLOUR TEMP	NORMAL	HYPER SOUND	OFF
PICTURE FEATURES		DIGITAL SURROUND	OFF
DIGITAL VNR	AUTO	**3D CINEMA SOUND (Only X series)**	
DIGIPURE PRO	AUTO (Only X series)	SURROUND	MEDIUM
COLOUR SYSTEM	TV : According to preset CH	BASS BOOST	MEDIUM
	EXT : AUTO	**FEATURES**	
4:3 AUTO ASPECT	PANORAMIC	SLEEP TIMER	OFF
		BLUE BACK	ON
EXT SETTING		DECODER (EXT-2)	OFF
ID	BLANK	**INSTALL**	
S-IN	BLANK	LANGUAGE	ENGLISH
DUBBING	EXT-1 --> EXT-2	AUTO PROGRAM	TV channel automatically set
		EDIT/MANUAL	PRESET CH only
			The others : BLANK

2.4.5 SERVICE MENU SETING ITEMS (TABLE 3)

Setting item	Setting value	Setting item	Setting value	
1. IF	1. VCO 2. ATT ON/OFF	5. VSM PRESET	BRIGHT/SOFT/STD	COOL/WARM/NOMAL
			1.CONT. 2.BRIGHT 3.SHARP 4.COLOUR 5.HUE	1.WDR R 2.WDR G 3.WDR B
2. V / C	1.RGB BLK 2.CUTOFF R 3.CUTOFF G 4.CUTOFF B 5.WDR R 6.WDR G 7.WDR B 8.BRIGHT 9.CONTRAST 10.COLOUR 11.HUE 12.SHARP 13.SC ADJ. 14.SIDE.P.P 15.SIDE.P.W	6.STATUS **(Do not adjust)**	VPS PDC	
3. AUDIO **(Do not adjust)**	1.ERR LIMIT 2.A2 ID THR 3.SYSTEM	8. SURROUND **(Do not adjust)**	1.CH CONFIG 2.MATRIX 3.REPROTECT I0 4.CENTER MODE 5.SPATIAL EFF 6.VIRTUAL EFF 7.BASS EFFECT 8.HARM 9.HPF 10.LPF 11.AMPLIMIT 12.LEVEL ADJ 13.SWC 14.SW HPF 15.VOLUME 16.HYPEREFFE 17.EFFECT MOD 18.HP-GAIN	
4. DEF.	1.V-SHIFT 2.V-SIZE 3.H-CENT 4.H-SIZE 5.TRAPEZ 6.EW-PIN 7.COR-UP 8.COR-LO 9.COR-UP-S 10.COR-LO-S 11.ANGLE 12.BOW 13.V-S.CR 14.V-LIN	9.SHIPPING **(Do not adjust)**	ON/OFF	

2.5 REPLACEMENT OF CHIP COMPONENT

2.5.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

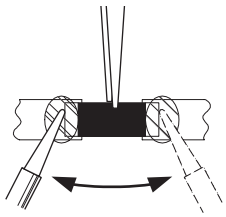
2.5.2 SOLDERING IRON

(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

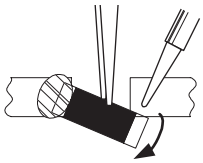
2.5.3 REPLACEMENT STEPS

1. How to remove Chip parts
[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



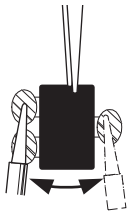
(2) Shift with the tweezers and remove the chip part.



[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.

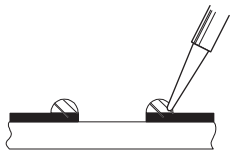
(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



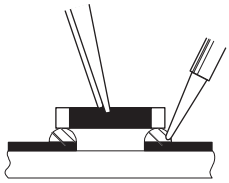
Note :
After removing the part, remove remaining solder from the pattern.

2. How to install Chip parts
[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

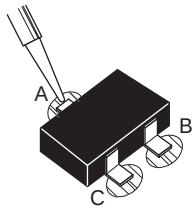


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

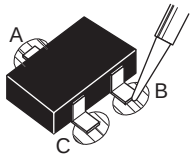


[Transistors, diodes, variable resistors, etc.]

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



SECTION 3
ADJUSTMENT

3.1 ADJUSTMENT PREPARATION

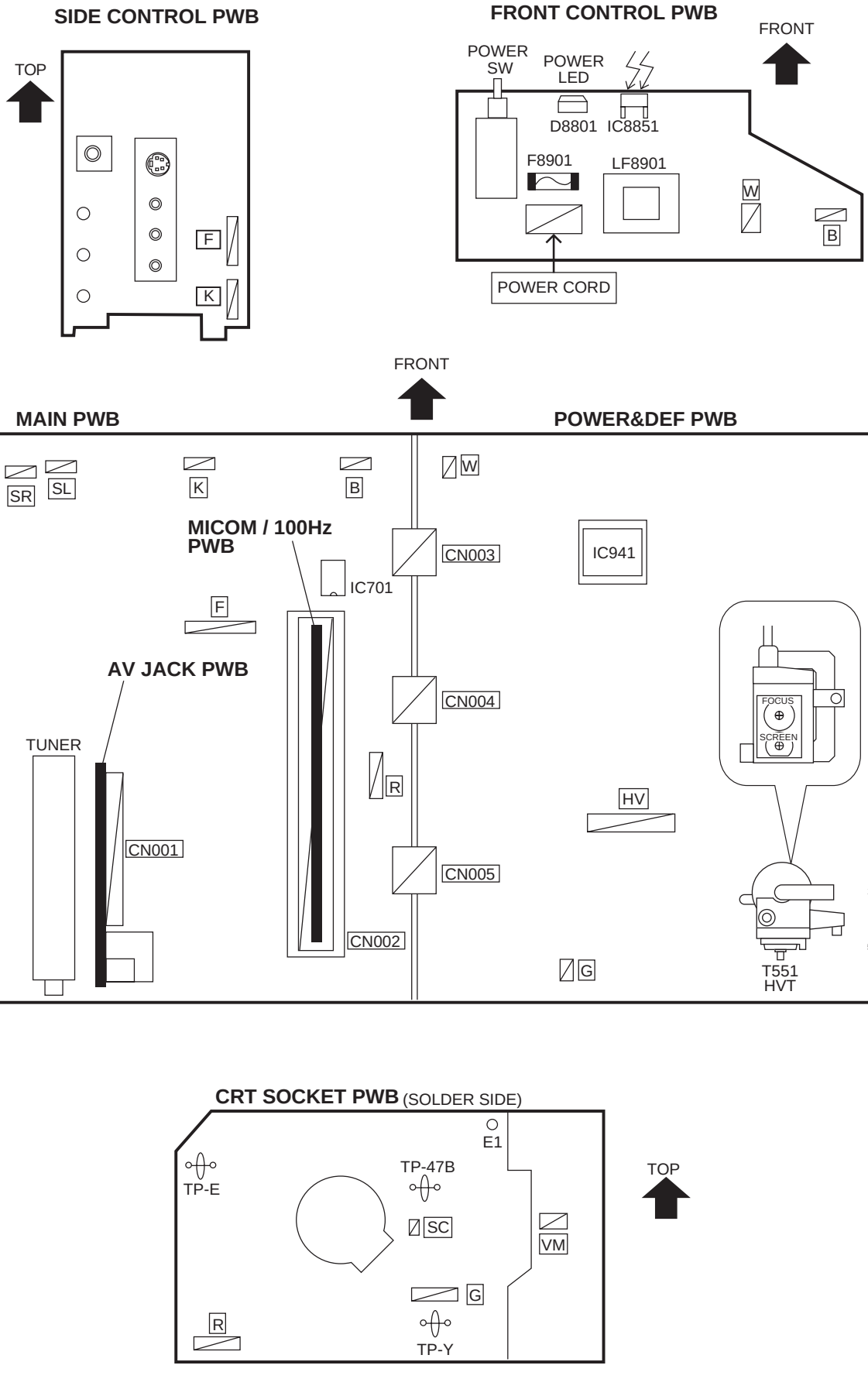
(1) There are 2 ways of adjusting this TV : One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
(2) The adjustment using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
(3) Make sure that connection is correctly made AC to AC power source.
(4) Turn on the power of the TV and measuring instruments for warning up for at least 30 minutes before starting adjustments.
(5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
(6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.
(7) Preparation for adjustment. Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

Item	Preset value
PICTURE MODE (VSM)	NORMAL
SLEEP TIMER	OFF
TONE BALANCE	Center
ZOOM	FULL

3.2 MEASURING INSTRUMENT AND FIXTURES

(1) DC voltmeter (or digital voltmeter)
(2) Oscilloscope
(3) Signal generator (Pattern generator : PAL / SECAM / NTSC)
(4) Remote control unit

3.3 ADJUSTMENT LOCATIONS



3.4 BASIC OPERATION OF SERVICE MENU

3.4.1 TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

3.4.2 SERVICE MENU ITEMS

With the SERVICE MENU, various adjustments can be made, and they are broadly classified in the following items of settings.

1.IF	This mode adjusts the setting values of the IF circuit.
2.V/C	This mode adjusts the setting values of the VIDEO / CHROMA circuit.
3.AUDIO	This mode adjusts the setting values of the multiplicity SOUND circuit.
4.DEF	This mode adjusts the setting values of the DEFLECTION circuit for each aspect mode given below.
5.VSM PRESET	This mode adjusts the initial setting values of COOL, NORMAL and WARM. (VSM : Video Status Memory)

3.4.3 BASIC OPERATION IN SERVICE MENU

(1) HOW TO ENTER SERVICE MENU

Press the “INFORMATION” key and the “MUTING” key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig.1 will be displayed.

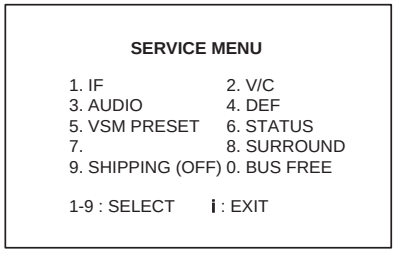


Fig.1

(2) SELECTION OF SUB MENU SCREEN

Press one of keys 1~5 of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See Fig. 3), form the SERVICE MENU.

SERVICE MENU → SUB MENU

1. IF
2. V / C
3. AUDIO
4. DEF.
5. VSM PRESET
6. STATUS
7.
8. SURROUND
9. SHIPPING (OFF)
0. BUS FREE

*** : Do not adjust**

NAME OF REMOTE CONTROL KEY

Names of key	Key
INFORMATION	
MUTING	
MENU	
FUNCTION UP/DOWN	
FUNCTION -/+	

Fig.2

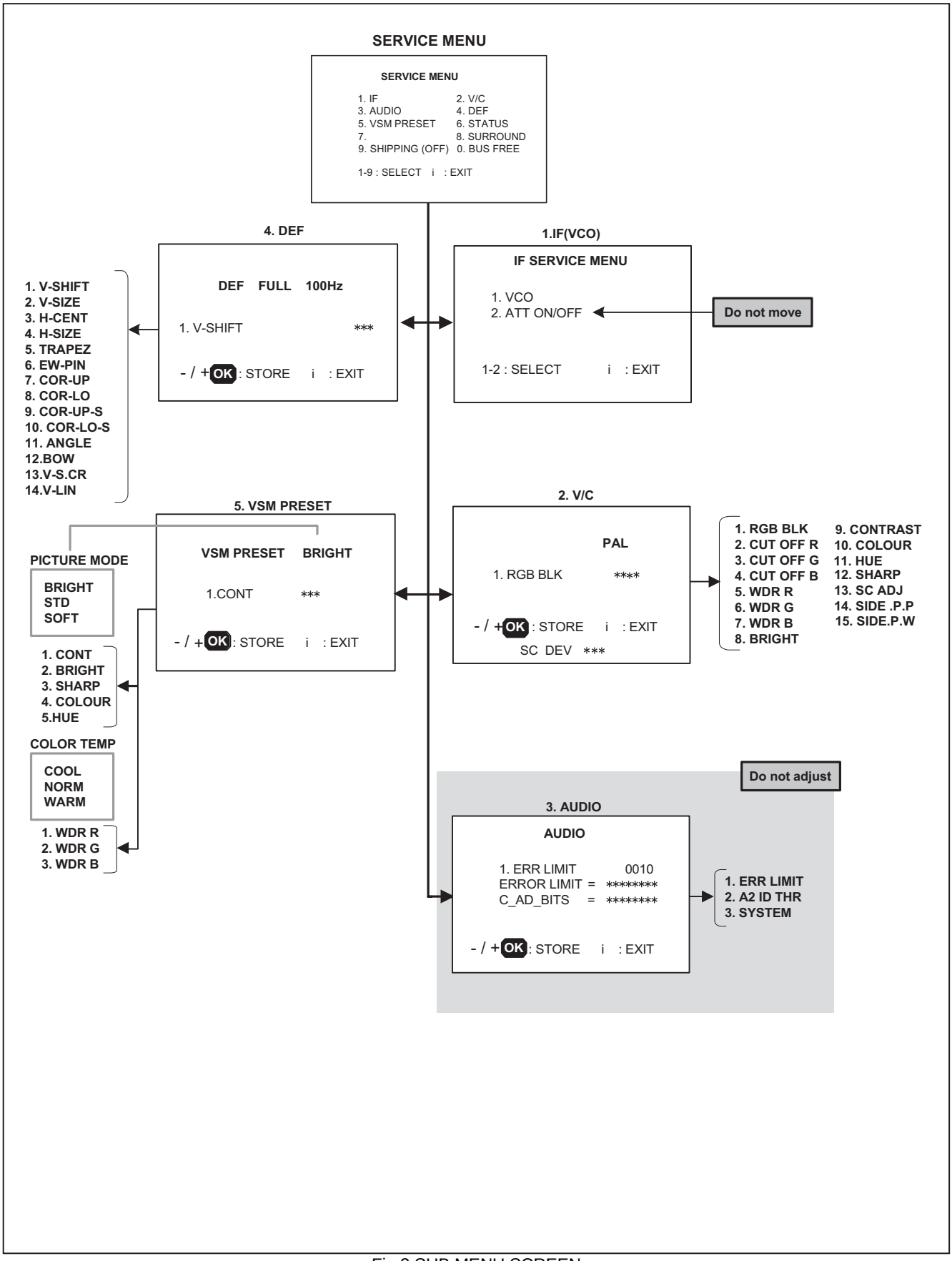


Fig.3 SUB MENU SCREEN

(3) METHOD OF SETTING

1) METHOD OF SETTING 1.IF

[1.VCO] : It must not adjust without signal.

Key	Function
(a) [1]	Select 1.IF
(b) [1]	Select 1.VCO (CW) Make sure that the arrow position between the ABOVE REF and BELOW REF.
(c) [INFORMATION]	Return to the SERVICE MENU screen.

2) METHOD OF SETTING 2.V/C, 4.DEF AND 5.VSM PRESET.

Key	Function
(a) [2~5]	Select one from 2.V/C, 3.AUDIO, 4.DEF and 5.VSM PRESET.
(b) FUNCTION UP / DOWN (▲/▼)	Select setting items.
(c) FUNCTION -/+ (◀/▶)	Set (adjust) the setting values of the setting items.
(d) OK	Memorize the setting value. (Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key if you do, the values will not be stored in memory.)
(e) INFORMATION	Return to the SERVICE MENU screen.

Do not setting 3.AUDIO, 6.STATUS, 8.SURROUND, 9.SHIPPING (OFF) and 0.BUS FREE.

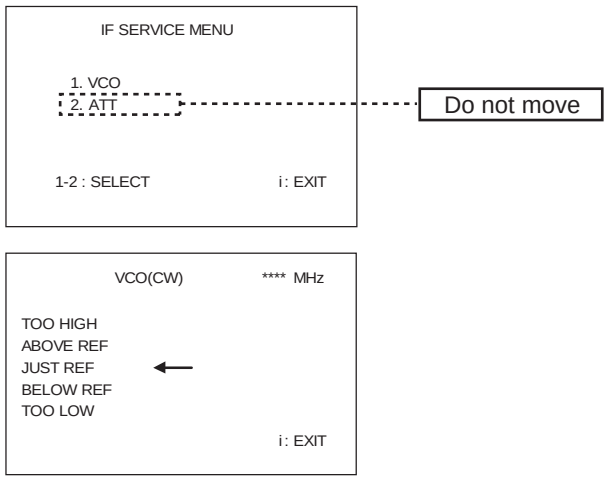
(4) RELEASE OF SERVICE MENU

After completing the setting, return to the SERVICE MENU, then again press the INFORMATION key.

3.5 ADJUSTMENTS PROCEDURE

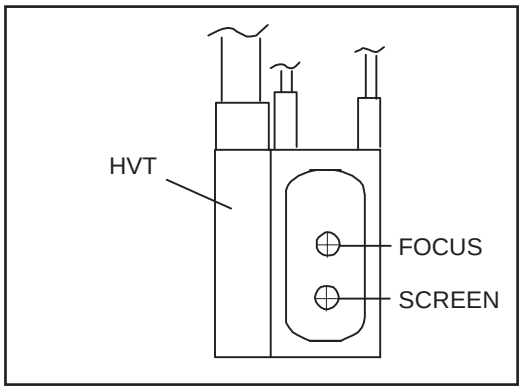
3.5.1 CHECK ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
B1 POWER SUPPLY check	Signal generator DC voltmeter Remote control unit	X connector TP-91(B1) TP-E(⏚) [POWER DEF PWB]	[2.V/C] 1.RGB BLK	(1) Receive a any broadcast. (2) Select the FULL mode. (3) Select 2. V/C from the SERVICE MENU. (4) Select 1. RGB BLK. (5) Press the [function + (▶)] key to find the cut off screen (Black screen). (6) Connect a DC voltmeter to TP-91(B1) and TP-E(⏚). (7) Make sure that the voltage is DC139.9 ±2.0V. (8) Press the [function - (◀)] key to return to service menu.
HIGH VOLTAGE check	Signal generator HV voltmeter Remote control unit	CRT anode Chassis GND	[2.V/C] 1.RGB BLK	(1) Receive a any broadcast. (2) Select the FULL mode. (3) Select 2. V/C from the SERVICE MENU. (4) Select 1. RGB BLK. (5) Press the [function + (▶)] key to find the cut off screen (Black screen). (6) Connect a HV voltmeter to CRT ANODE and chassis GND. (7) Make sure that the voltage is DC 31.0kV (+1kV / -1.5kV). (8) Press the [function - (◀)] key to return to service menu.
IF VCO check	Remote control unit		[1.IF] 1.VCO	• Under normal conditions, no adjustment is required. • It must not adjust without broadcast signal. (1) Select 1.IF from the SERVICE MENU. (2) Then select 1.VCO from the 1.IF. (3) Receive any broadcast. (4) Check the arrow (<--) position between the ABOVE REF. and BELOW REF.



3.5.2 FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	Signal generator		FOCUS VR [In HVT]	(1) Receive a cross-hatch signal. (2) Select the FULL mode. (3) While watching the screen, adjust the FOCUS VR to make the vertical and horizontal lines as fine and sharp as possible. (4) Make sure that when the screen is darkened, the lines remain in good focus.



3.5.3 VSM PRESET ADJUST SETTING

Item	Measuring instrument	Test point	Adjustment part	Description
VSM PRESET setting	Remote control unit		[5.VSM PRESET] (BRIGHT/SOFT/STD) 1. CONT. 2. BRIGHT 3. SHARP 4. COLOUR 5. HUE (COOL/WARM/ NOMAL) 1. WDR R 2. WDR G 3. WDR B	(1) Select STD(standard) of PICTURE MODE with the [MENU] key. (2) Select 5.VSM PRESET. (3) Adjust the FUNCTION UP/DOWN and -/+ key to bring the set values of 1.CONT to 5. HUE to the values shown in the table. (4) Press the [MENU] key and memorize the set value. (5) Respectively select BRIGHT or SOFT of PICTURE MODE, and make similar adjustment as in 3 above. (6) Press the [MENU] key and memorize the set value. (7) Select COOL of COLOUR TEMP with the [MENU] key. (8) Select 5.VSM PRESET. (9) Adjust the FUNCTION UP/DOWN and -/+ key to bring the set values of 1.WDR R to 3. WDR B to the values shown in the table. (10) Press the [MENU] key and memorize the set value. (11) Respectively select NORMAL or WARM of PICTURE MODE, and make similar adjustment as in 9 above. (12) Press the [MENU] key and memorize the set value. * Refer to OPERATING INSTRUCTIONS for the PICTURE MODE.

VSM PRESET setting item

	1.CONT.	2.BRIGHT	3.SHARP	4.COLOUR	5.HUE
BRIGHT	+7	0	0	0	0
SOFT	-3	0	-2	0	0
STANDARD	0	0	0	0	0

	1.WDR R	2.WDR G	3.WDR B
COOL	-15	-9	0
WARM	+4	0	0
NOMAL	0	0	0

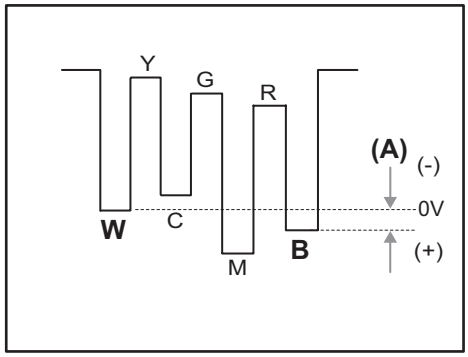
3.5.4 VIDEO CIRCUIT ADJUSTMENT

The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.
The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

Setting item (Adjustment item)			Initial setting value		
2. V/C			PAL	SECAM	NTSC
1.RGB BLK			--- (OFF)	--- (OFF)	--- (OFF)
2.CUTOFF R			100	100	100
3.CUTOFF G			132	132	132
4.CUTOFF B			124	124	124
5.WDR R			165	165	165
6.WDR G			135	135	135
7.WDR B **(Do not move)**			150	150	150
8.BRIGHT			-30	-30	-30
9.CONTRAST			40	36	36
10.COLOUR			36	31	25 : NTSC 3.58
					0 : NTSC 4.43
11.HUE			---	---	2 : NTSC 3.58
					0 : NTSC 4.43
12.SHARP **(Do not move)**		TV	-2	-2	-2
		EXT	0	0	0
13.SC ADJ. **(Do not move)**			18	---	---
14.SIDE .P.P **(Do not move)**	REGULAR	AV-28X37SUE AV-28X37HKE AV-28X35HKE AV-28X37HIE AV-28X35HUE	330	330	326
		AV-28H35SUE AV-28H35BUE	322	322	328
	14:9 ZOOM	AV-28X37SUE AV-28X37HKE AV-28X35HKE AV-28X37HIE AV-28X35HUE	291	291	284
		AV-28H35SUE AV-28H35BUE	284	284	290
15.SIDE .P.W **(Do not move)**	REGULAR	AV-28X37SUE AV-28X37HKE AV-28X35HKE AV-28X37HIE AV-28X35HUE	1104	1104	1114
		AV-28H35SUE AV-28H35BUE	1096	1096	1106
	14:9 ZOOM	AV-28X37SUE AV-28X37HKE AV-28X35HKE AV-28X37HIE AV-28X35HUE	1144	1144	1146
		AV-28H35SUE AV-28H35BUE	1137	1137	1150

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE adjustment	Signal generator Remote control unit		[2. V/C] 2.CUTOFF R 3.CUTOFF G 4.CUTOFF B 5.WDR R 6.WDR G 7.WDR B (Do not move)	• Set the PICTURE MODE to NORMAL. (1) Receive a black and white signal (colour off). (2) Select 2.V/C. (3) Each select 2.CUTOFF R, 3.CUTOFF G, 4.CUTOFF B and adjust the screen until the black portion in the screen becomes black. (4) Each select 5.WDR R, 6.WDR G and adjust the screen until the white portion in the screen becomes white. **NOTE:** Do not adjust 7. WDR B (5) Press the [MENU] key and memorize the set value. (6) Change the contrast and brightness from low-light to high-light and check that the tracking of the white balance is good.
SUB BRIGHT adjustment	Remote control unit		[2. V/C] 8. BRIGHT	(1) Receive any broadcast. (2) Select 2.V/C. (3) Select 8.BRIGHT. (4) Set the initial setting value. (5) If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness. (6) Press the [MENU] key and memorize the set value.
SUB CONTRAST adjustment	Remote control unit		[2. V/C] 9. CONT.	(1) Receive any broadcast. (2) Select 2.V/C. (3) Select 9.CONT. (4) Set the initial setting value. (5) If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast. (6) Press the [MENU] key and memorize the set value.
SUB COLOUR I adjustment	Remote control unit		[2.V/C] 10.COLOUR (PAL/SECAM/NTSC)	**[Method of adjustment without measuring instrument]** **PAL COLOUR:** (1) Receive PAL broadcast. (2) Select 2.V/C. (3) Select 10.COLOUR. (4) Set the initial setting value for PAL COLOUR. (5) If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. (6) Press the [MENU] key and memorize the set value. **SECAM COLOUR:** (1) Receive a SECAM broadcast. (2) Make fine adjustment of SECAM COLOUR in the same manner as for above. **NTSC 3.58 COLOUR:** (1) Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal. (2) Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above. **NTSC 4.43 COLOUR:** (1) When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set.

Item	Measuring instrument	Test point	Adjustment part	Description
SUB COLOUR II adjustment	Signal generator Oscilloscope Remote control unit	TP-47B TP-E(⏚) [CRT SOCKET PWB]	[2.V/C] 10.COLOUR (PAL/SECAM/NTSC)	**[Method of adjustment using measuring instrument]** **PAL COLOUR:** (1) Receive a PAL full field colour bar signal (75% white). (2) Select 2.V/C. (3) Select 10.COLOUR. (4) Set the initial setting value of PAL COLOUR. (5) Connect the oscilloscope between TP-47B and TP-E(⏚). (6) Adjust PAL COLOUR and bring the value of (A) in the illustration to the values as shown given billow (Voltage difference between white (W) and blue (B)). (7) Press the [MENU] key and memorize the setting value. **SECAM COLOUR:** (1) Receive a SECAM full field colour bar signal (75% white). (2) Set the initial setting value of SECAM COLOUR. (3) Adjust SECAM COLOUR and bring the value of (A) in the illustration to the values as shown given billow (Voltage difference between white (W) and blue (B)). (4) Press the [MENU] key and memorize the setting value. **NTSC 3.58 COLOUR:** (1) Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. (2) Set the initial setting value of NTSC 3.58 COLOUR. (3) Adjust NTSC 3.58 COLOUR and bring the value of (A) in the illustration to the values as shown given billow (Voltage difference between white (W) and blue (B)). (4) Press the [MENU] key and memorize the setting value. **NTSC 4.43 COLOUR:** (1) When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set.



[PAL COLOUR VOLTAGE SETTING]

	AV-28X37SUE AV-28X37HIE AV-28X37HKE AV-28X35HUE AV-28X35HKE	AV-28H35SUE AV-28H35BUE
VOLTAGE (W-B)	**+11V**	**+3V**

[SECAM COLOUR VOLTAGE SETTING]

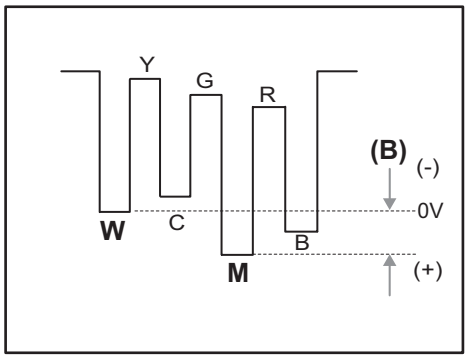
	AV-28X37SUE AV-28X37HIE AV-28X37HKE AV-28X35HUE AV-28X35HKE	AV-28H35SUE AV-28H35BUE
VOLTAGE (W-B)	**+6V**	**+10V**

[NTSC COLOUR VOLTAGE SETTING]

	All model
VOLTAGE (W-B)	**+1V**

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>SUB HUE I adjustment</td><td>Remote control unit</td><td></td><td>[2.V/C]
11.HUE</td><td>[Method of adjustment without measuring instrument]
NTSC 3.58 HUE:
(1) Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.
(2) Select 2.V/C.
(3) Select 11. HUE.
(4) Set the initial setting value of NTSC 3.58 HUE.
(5) If you cannot get the best hue with the initial setting value, make fine adjustment until you get the best hue.
(6) Press the [MENU] key and memorize the set value.
NTSC 4.43 HUE:
(1) When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</td></tr>
<tr><td>SUB HUE II adjustment</td><td>Signal generator

Oscilloscope

Remote control unit</td><td>TP-47B
TP-E(⏚)
[CRT SOCKET PWB]</td><td>[2.V/C]
11.HUE</td><td rowspan="2">[Method of adjustment using measuring instrument]
NTSC 3.58 HUE:
(1) Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.
(2) Select 2.V/C.
(3) Select 11. HUE.
(4) Set the initial setting value of NTSC 3.58 HUE.
(5) Connect the oscilloscope between TP-47B and TP-E(⏚)
(6) Adjust NTSC 3.58 HUE to bring the value of (B) in the illustration to the values as shown given billow (voltage difference between white (W) and magenta (Mg)).
(7) Press the [MENU] key and memorize the setting value.
NTSC 4.43 HUE:
(1) When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set.</td></tr>
<tr><td colspan="4"> 

[VOLTAGE SETTING]
<table>
<tr><th></th><th>AV-28X37SUE
AV-28X37HIE
AV-28X37HKE
AV-28X35HUE
AV-28X35HKE</th><th>AV-28H35SUE
AV-28H35BUE</th></tr>
<tr><td>VOLTAGE (W-M)</td><td>-10V</td><td>-10V</td></tr>
</table></td></tr>
</table>

3.5.5 DEFLECTION CIRCUIT ADJUSTMENT

There are 4 aspect modes (1.FULL, 2.PANORAMIC, 3.SUBTITLE, 4.COMPRES) of the adjustment.
Depending upon the kind of signals (Vertical frequency 100Hzi / 60Hzp: AV-28X37SUE/AV-28X37HIE/AV-28X37HKE/AV-28X35HUE/ AV-28X35HKE, 100Hzi / 120Hzi: AV-28H35SUE/AV-28H35BUE).
100Hzi is a signal that is output to a screen when a 50Hz signal is input to a television set. It is an interlace-scanned picture of 100Hz.
60Hz p is a signal that is output to a screen when a 60Hz signal is input to a television set. It is a progressive-scanned picture of 60Hz. (X series only)
120Hz i is a signal that is output to a screen when a 60Hz signal is input to a television. It is an interlace-scanned picture of 120Hz. (H series only)

- When the 100Hz FULL mode has been established, the setting of other modes will be done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.
- The adjustment using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

Initial setting value (AV-28X37SUE/AV-28X37HIE/AV-28X37HKE/AV-28X35HUE/AV-28X35HKE) **Mark [ ] : Fixed value**

Setting item	Adjustment name	Initial setting value							
		FULL		PANORAMIC		SUBTITLE		COMPRESS	
		100Hzi	60Hzp	100Hzi	60Hzp	100Hzi	60Hzp	[100Hzi]	[60Hzp]
1. V-SHIFT	Vertical center	0000	0000	0000	0000	0000	0000	[0000]	[0000]
2. V-SIZE	Vertical height	-032	0000	0000	0000	0000	0000	[-040]	[0000]
3. H-CENT	Horizontal center	-014	0000	0000	0000	0000	0000	[0000]	[0000]
4. H-SIZE	Horizontal width	0000	0000	0000	0000	0000	0000	[0000]	[0000]
5. TRAPEZ	Trapezoidal distortion correction	-005	0000	0000	0000	0000	0000	[0000]	[0000]
6. EW-PIN	Side pin correction	-035	0000	0000	0000	0000	0000	[0000]	[0000]
7. COR-UP	Corner Pin correction Up side	0000	0000	0000	0000	0000	0000	[0000]	[0000]
8. COR-LO	Corner Pin correction Low side	-005	0000	0000	0000	0000	0000	[0000]	[0000]
9. COR-UP-S	Corner pin correction UP	0000	0000	0000	0000	0000	0000	[0000]	[0000]
10. COR-LO-S	Corner pin correction LOW	0000	0000	0000	0000	0000	0000	[0000]	[0000]
11.ANGLE	Angle correction	002	0000	0000	0000	0000	0000	[0000]	[0000]
12.BOW	Bow-shaped distortion correction	0000	0000	0000	0000	0000	0000	[0000]	[0000]
13.V-S.CR (Do not adjust)	Vertical height correction	[0003]	[0000]	[0005]	[0000]	[0000]	[0000]	[0000]	[0000]
14.V-LIN (Do not adjust)	Vertical Linearity	-007	0000	[-004]	[0000]	[0000]	[0000]	[0000]	[0000]

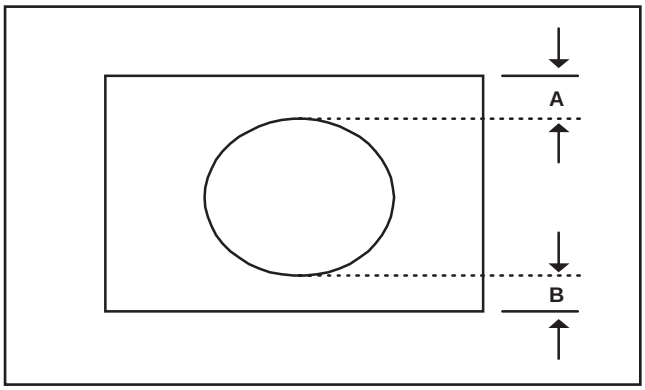
Initial setting value (AV-28H35SUE/AV-28H35BUE) **Mark [ ] : Fixed value**

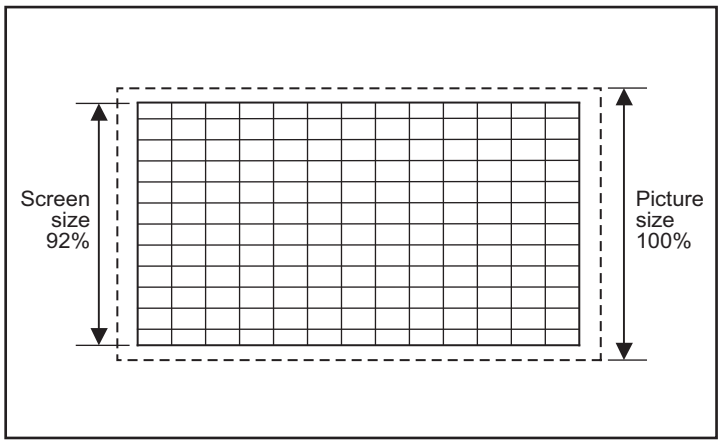
Setting item	Adjustment name	Initial setting value					
		FULL		PANORAMIC		SUBTITLE	
		100Hzi	120Hzi	100Hzi	120Hzi	100Hzi	120Hzi
1. V-SHIFT	Vertical center	0000	0000	0000	0005	+005	0000
2. V-SIZE	Vertical height	-033	0000	0005	0017	+001	0000
3. H-CENT	Horizontal center	-014	0000	0000	0000	0000	0000
4. H-SIZE	Horizontal width	0000	0000	0000	0000	0000	0000
5. TRAPEZ	Trapezoidal distortion correction	-011	0000	0000	0000	0000	0000
6. EW-PIN	Side pin correction	-035	0000	0000	0000	0000	0000
7. COR-UP	Corner Pin correction Up side	0000	0000	0000	0000	0000	-008
8. COR-LO	Corner Pin correction Low side	0000	0000	0000	0000	0010	0000
9. COR-UP-S	Corner pin correction UP	0000	0000	0000	0000	0000	0000
10. COR-LO-S	Corner pin correction LOW	0000	0000	0000	0000	0000	0000
11.ANGLE	Angle correction	0000	0000	0000	0000	0000	0000
12.BOW	Bow-shaped distortion correction	0000	0000	0000	0000	0000	0000
13.V-S.CR (Do not adjust)	Vertical height correction	[0003]	[0000]	[0005]	[0000]	[0008]	[0000]
14.V-LIN (Do not adjust)	Vertical Linearity	0000	0000	[-004]	[0000]	[-008]	[0000]

NOTE :

- Do not adjust PANORAMIC & SUBTITLE mode.
- At first the adjustment in 50Hz FULL mode should be done, then the data for the other aspect mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 60Hz (NTSC EXT mode) FULL mode. If the adjustment in 50Hz each aspect mode has been done and stored, the data for the same aspect modes in 60Hz is corrected in the respective value. Only the data for the other aspect mode in 60Hz is corrected for itself.

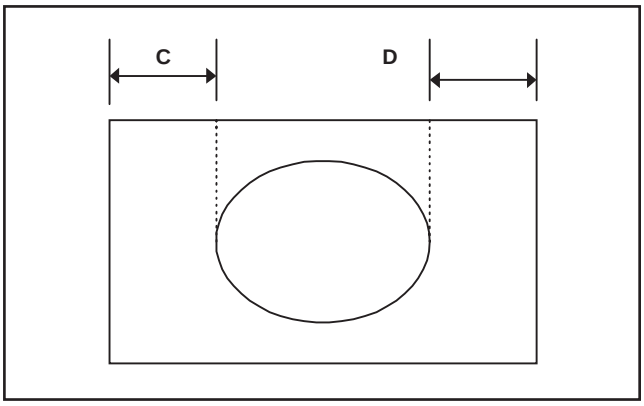
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>V.POSITION adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>[4.DEF]
1.V- SHIFT</td><td rowspan="2">• Set the FULL mode.
(1) Receive a circle pattern signal of vertical frequency 50Hz.
(2) Select 4.DEF.
(3) Select 1.V-SHIFT.
(4) Adjust vertical position to make A = B.
(5) Check the adjustment value above in other zoom mode. If it is a wrong adjustment, re-adjust in FULL mode and adjust by 1.V-SHIFT.
(6) Press the [MENU] key and memorize the set value.</td></tr>
<tr><td colspan="4"> 
</td></tr>
<tr><td>V.SIZE adjustment</td><td>Signal generator

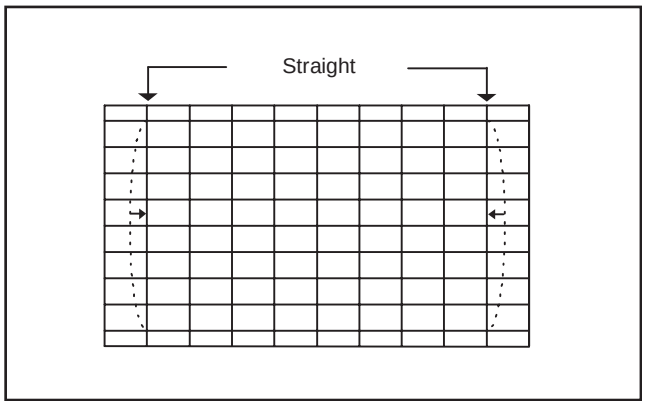
Remote control unit</td><td></td><td>[4.DEF]
2.V-SIZE</td><td rowspan="2">• Set the FULL mode.
(1) Receive a cross-hatch signal.
(2) Select 2.V-SIZE and set the initial setting value.
(3) Adjust to make sure that the vertical screen size of the picture size is in the bellow table.
(4) Make sure that the vertical screen size of the each ASPECT mode is in the below table.
(5) Press the [MENU] key and memorize the set value.
(6) Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the vertical screen size is in the table below.
(7) Press the [MENU] key and memorize the set value.</td></tr>
<tr><td colspan="4"> 

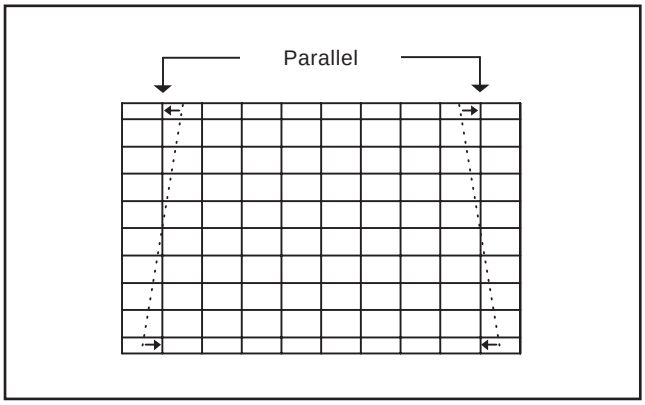
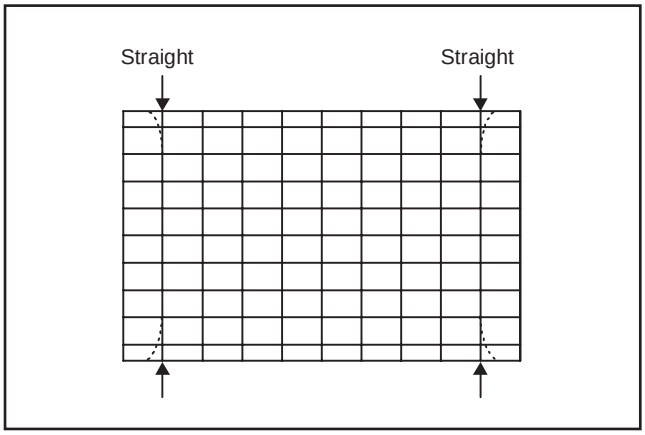
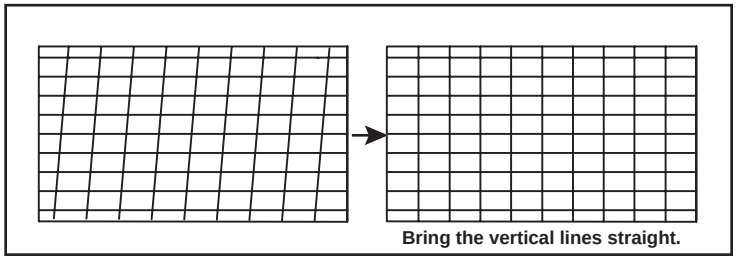
[SCREEN SIZE]
<table>
<tr><th>ASPECT MODE</th><th>FULL</th><th>PANORAMIC</th><th>SUBTITLE</th></tr>
<tr><td>SCREEN TOP</td><td>92%</td><td>87%</td><td>70%</td></tr>
<tr><td>SCREEN BOTTOM</td><td>92%</td><td>87%</td><td>83%</td></tr>
</table></td></tr>
</table>

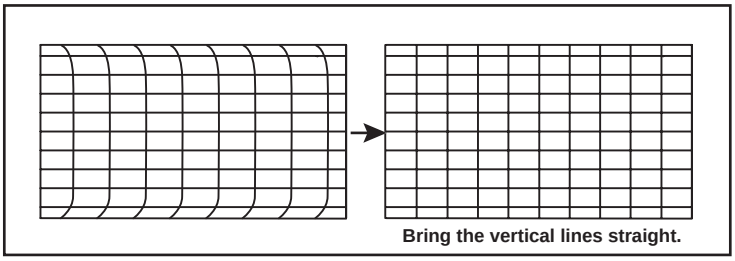
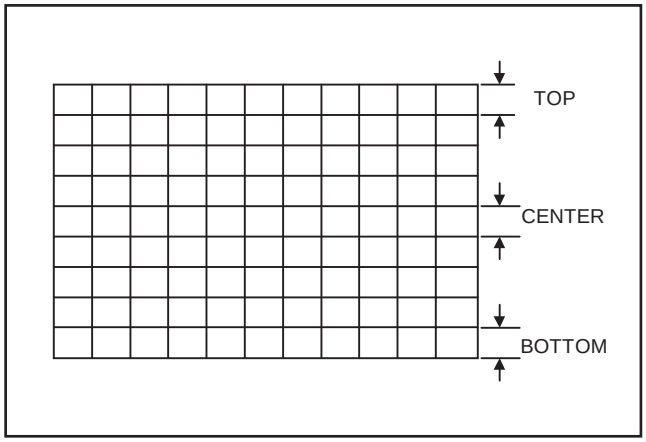
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>H. POSITION adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>[4.DEF]
3.H-CENT</td><td rowspan="3">• Set the FULL mode.
(1) Receive a circle pattern signal.
(2) Select 3.H-CENT and set the initial setting value.
(3) Adjust horizontal position to make C=D.
(4) Press the [MENU] key and memorize the set value.</td></tr>
<tr><td colspan="4"> 
</td></tr>
<tr><td>H.SIZE adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>[4.DEF]
4.H-SIZE</td><td rowspan="2">• Set the FULL mode.
(1) Receive a circle pattern signal.
(2) Select 4.H-SIZE and set the initial setting value.
(3) Adjust to make sure that the horizontal screen size of the picture size is in the bellow table.
(4) Make sure that the horizontal screen size of the each ASPECT mode is in the below table.
(5) Press the [MENU] key and memorize the set value.
(6) Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the horizontal screen size of the each ASPECT mode is in the below table.
(7) Press the MENU key and memorize the set value.</td></tr>
<tr><td colspan="4">[SCREEN SIZE]
<table>
<tr><th>ASPECT MODE</th><th>FULL</th><th>PANORAMIC</th><th>SUBTITLE</th></tr>
<tr><td>H SIZE</td><td>92%</td><td>95%</td><td>92%</td></tr>
</table></td></tr>
<tr><td>SIDE-PIN adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>[4.DEF]
6.EW-PIN</td><td rowspan="2">• Set the FULL mode.
(1) Select 6.EW-PIN and set the initial setting value.
(2) Adjust to make the 2nd vertical lines at the left and right edges of the screen straight. Also make sure that the 3rd vertical lines are straight.
(3) Press the [MENU] key and memorize the set value.</td></tr>
<tr><td colspan="4"> 
</td></tr>
</table>

Item	Measuring instrument	Test point	Adjustment part	Description
TRAPEZIUM adjustment	Signal generator Remote control unit		[4.DEF] 5.TRAPEZ	• Set the FULL mode. (1) Receive a cross-hatch signal. (2) Select 5.TRAPEZ. (3) Set the initial setting value of 5.TRAPEZ. (4) Adjust to bring the vertical lines at the right and left edges of the screen parallel. (5) Press the [MENU] key and memorize the set value.
				
CORNER adjustment	Signal generator Remote control unit		[4.DEF] 7.COR-UP 8.COR-LO 9.COR-UP-S 10.COR-LO-S	• Set the FULL mode. (1) Select 7.COR-UP. (2) Set the initial setting value of 7.COR.-UP. (3) Adjust to bring the straight line at the upper corner. (4) Select 8.COR-LO. (5) Set the initial setting value of 8.COR-LO. (6) Adjust to bring the straight line at the low corner. (7) Press the [MENU] key and memorize the set value. (8) If the extreame upper & lower corners are a little pin or barrel chose 9.COR-UP-S or 10. COR-LO-S and adjust. (9) Press the [MENU] key and memorize the set value.
				
ANGLE adjustment	Signal generator Remote control unit		[4.DEF] 11. ANGLE	• In case where there is a parallelogrammical distortion of images on the screen. • Set the FULL mode. (1) Select 11.ANGLE. (2) Adjust to bring the vertical lines straight. (3) Press the [MENU] key and memorize the set value.
				

Item	Measuring instrument	Test point	Adjustment part	Description
BOW adjustment	Signal generator Remote control unit		[4.DEF] 12.BOW	• In case where there is a bow-shaped distortion of images on the screen. • Set the FULL mode. (1) Select 12.BOW. (2) Adjust to bring the vertical lines straight. (3) Press the [MENU] key and memorize the set value.
				
V.S-SHAPE CORRECTION & V.LINEARITY adjustment	Signal generator Remote control unit		[4.DEF] 13.V-S.CR 14.V-LIN	• When the vertical linearity has been deteriorated remarkably, perform the following steps. • Set the FULL mode. (1) Receive a cross-hatch signal. (2) Select 14.V-LIN. (3) Set the initial setting value of 14.V-LIN. (4) Select 13.V-S.COR. (5) Set the initial setting value of 13.V-S.COR. • Adjust 14.V-LIN and 13.V-S.COR so that the spaces of each line on top, center and bottom become uniform.
				

3.5.6 AUDIO CIRCUIT ADJUSTMENT

• Do not touch **3. AUDIO** adjustment of the SERVICE MENU as it requires no adjustment.
If values had changed for the some reason, set the initial values in the following table.

3. AUDIO (Do not adjust)

Setting item	Variable range	Fixed value
1. ERR LIMIT	000H~FF0H	100H
2. A2 ID THR	00H~FFH	19H
3. SYSTEM	0000H~7FFFH	---

JVC

SCHEMATIC DIAGRAMS

COLOUR TELEVISION

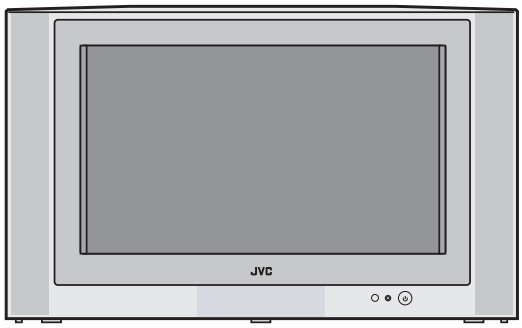
AV-28X37SUE, AV-28X37HKE, AV-28X35HKE, AV-28X37HIE, AV-28H35SUE, AV-28H35BUE, AV-28X35HUE

BASIC CHASSIS
ML

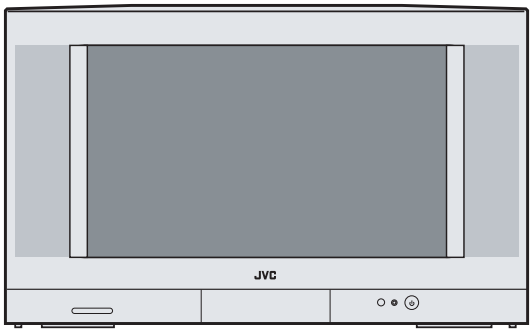
CD-ROM No.SML200305

InteriArt
Natural Vision
T-V LINK

<RM-C50H>
<RM-C54H>
<RM-C55H>



AV-28X35HKE
AV-28H35SUE
AV-28H35BUE
AV-28X35HUE



AV-28X37SUE
AV-28X37HKE
AV-28X37HIE

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No.52106
2003/03

AV-28X37SUE, AV-28X37HKE, AV-28X35HKE, AV-28X37HIE, AV-28H35SUE, AV-28X35HUE, AV-28H35BUE
STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal	
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped	
(3)Internal resistance of tester	:DC 20kΩ/V	
(4)Oscilloscope sweeping time	:H	⇒ 20µs/div
	:V	⇒ 5ms/div
	:Others	⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values	

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board :R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	:[Ω]
K	:[k Ω]
M	:[M Ω]

● Rated allowable power

No indication	:1/ 16 [W]
Others	:As specified

● Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	:[pF]
less than 1	:[µF]

● Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage [V]
AC indicated	:AC withstand voltage [V]

∗ Electrolytic Capacitors

47/50[Example]:Capacitance value [µF]/withstand voltage[V]

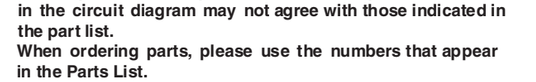
● Type

No indication	:Ceramic capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

No unit	:[µH]
Others	:As specified

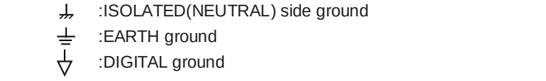
(4)Power Supply



∗ Respective voltage values are indicated

(5)Test point

(6)Connecting method



(7)Ground symbol

⊥ :LIVE side ground

⏚ :ISOLATED(NEUTRAL) side ground

⏚ :EARTH ground

▽ :DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND.Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◆ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

AV-28X37SUE
AV-28X37HKE AV-28X35HKE
AV-28X37HIE AV-28H35SUE
AV-28X35HUE AV-28H35BUE

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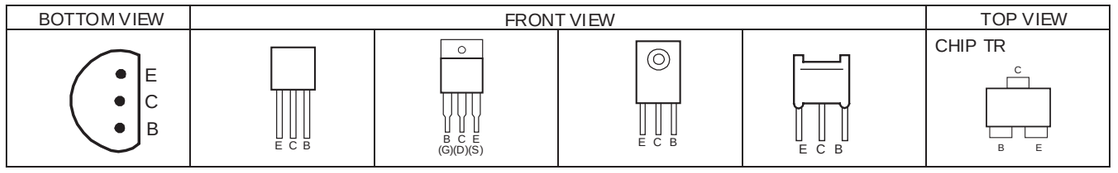
USING P.W. BOARD

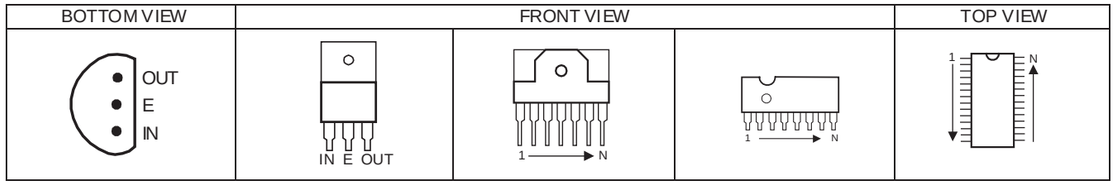
P.W.B ASS'Y	AV-28X37SUE	AV-28X37HKE	AV-28X35HKE	AV-28X37HIE	AV-28H35SUE	AV-28H35BUE	AV-28X35HUE
MAIN PWB	SML-1002A-U2	SML-1902A-U2	←	SML-1002A-U2	←	←	←
POWER & DEF PWB	SML-2002A-U2	←	←	←	←	←	←
100Hz PWB	SML0Z001A-U2	←	←	←	SML0Z002-U2	←	SML0Z001A-U2
CRT SOCKET PWB	SML-3002A-U2	←	←	←	←	←	←
FRONT CONTROL PWB	SML-8001A-U2	←	←	←	←	←	←
SIDE CONTROL PWB	SML-8101A-U2	←	←	←	←	←	←
AV JACK PWB	SML0J001A-U2	←	←	←	←	←	←

SEMICONDUCTOR SHAPES

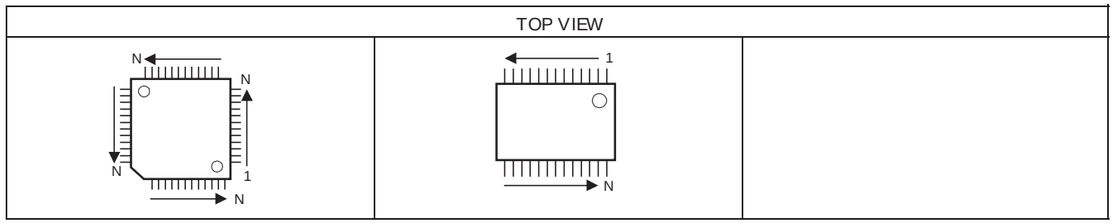
TRANSISTOR



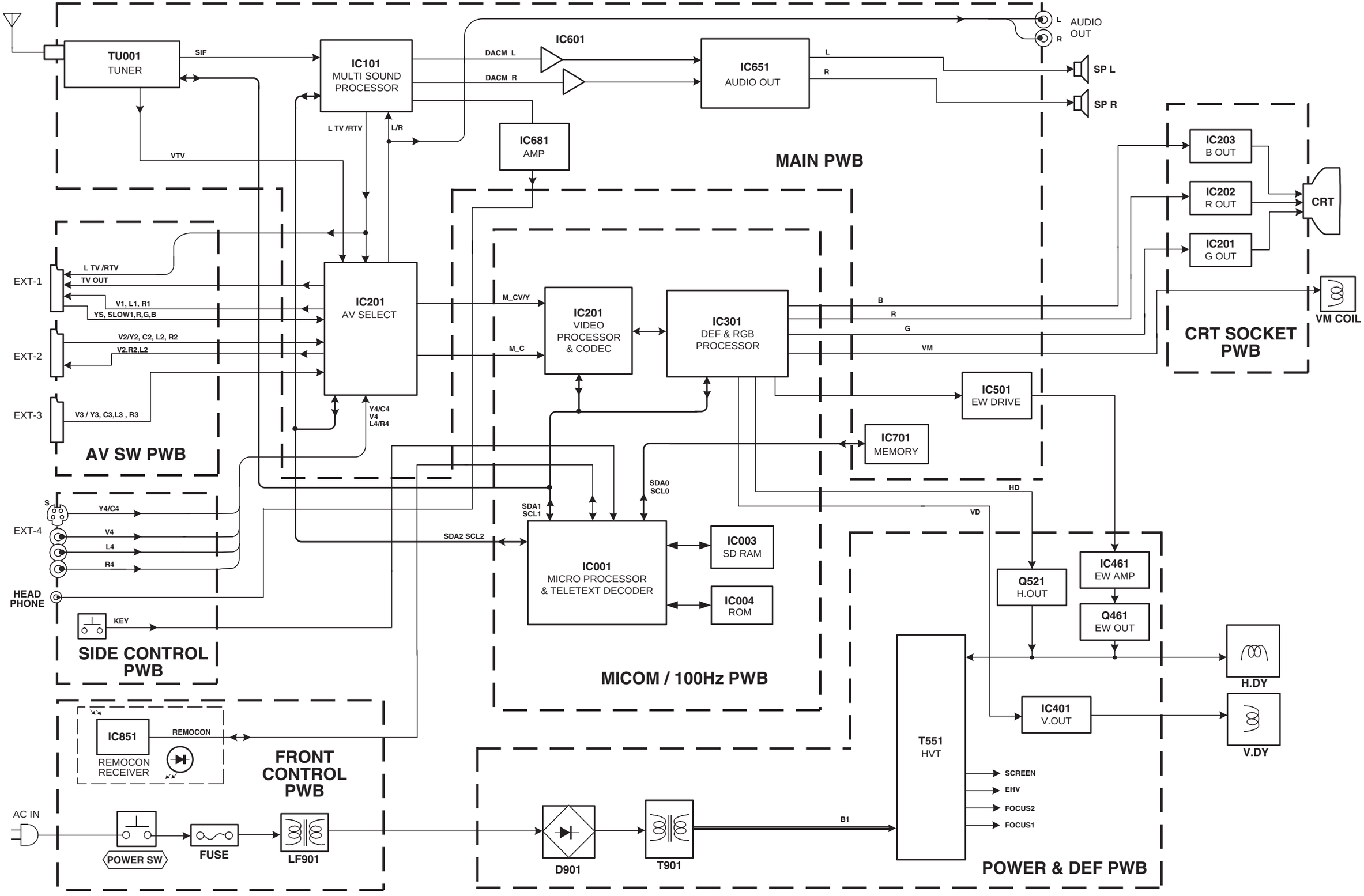
IC



CHIP IC



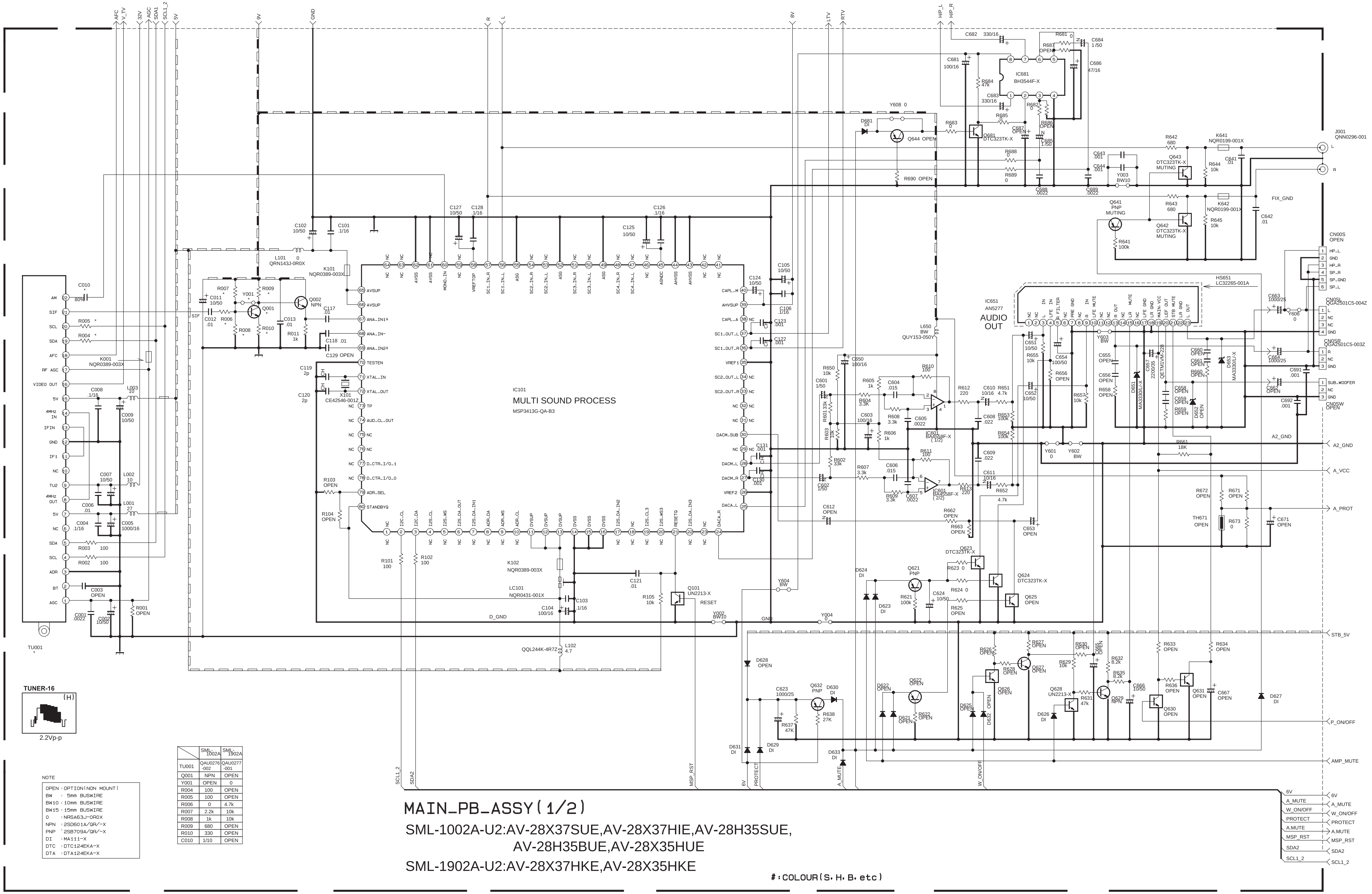
BLOCK DIAGRAM



AV-28X37SUE
AV-28X37HKE AV-28X35HKE
AV-28X37HIE AV-28H35SUE
AV-28X35HUE AV-28H35BUE

CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/2) SHEET 1



	SML-1002A	SML-1902A
TU001	QAU0276-002	QAU0277-001
Q001	NPN	OPEN
Y001	OPEN	0
R004	100	OPEN
R005	100	OPEN
R006	0	4.7k
R007	2.2k	10k
R008	1k	10k
R009	680	OPEN
R010	330	OPEN
C010	1/10	OPEN

NOTE

OPEN : OPTION(NON MOUNT)
BW : 5mm BUSWIRE
BW10 : 10mm BUSWIRE
BW15 : 15mm BUSWIRE
0 : NRSA63J-0R0X
NPN : 2SD601A/QR/-X
PNP : 2SB709A/QR/-X
DI : MA111-X
DTC : DTC124EKA-X
DTA : DTA124EKA-X

MAIN_PB_ASSY(1/2)

SML-1002A-U2:AV-28X37SUE,AV-28X37HIE,AV-28H35SUE,
AV-28H35BUE,AV-28X35HUE

SML-1902A-U2:AV-28X37HKE,AV-28X35HKE

#:COLOUR(S,H,B,etc)

PIN NO.	VOLTAGE (V)
IC101	
1	0
2	4.4
3	4.4
4	1.1
5	1.1
6	1.0
7	1.1
8	1.1
9	1.1
10	1.1
11	4.8
12	4.8
13	4.8
14	0
15	0
16	0
17	1.1
18	0
19	0
20	0
21	4.8
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	0
32	0
33	3.7
34	3.7
35	0
36	3.7
37	3.7
38	7.0
39	8.0
40	7.1
41	0
42	0
43	0
44	0
45	3.6
46	0
47	3.6
48	3.7
49	0
50	3.7
51	3.7
52	0
53	3.7
54	3.7
55	0
56	4.3
57	4.3
58	2.5
59	0
60	3.7
61	0
62	0
63	0
64	0
65	4.8
66	4.8
67	4.8
68	1.4
69	1.4
70	0
71	-
72	-
73	2.3
74	2.4
75	0
76	0
77	0
78	0
79	2.4
80	4.8
IC601	
1	4.4
2	4.4
3	0
4	0
5	4.3
6	4.4
7	4.4
8	8.8
IC651	
1	0
2	0
3	0
4	0
5	28.7
6	-
7	0
8	-
9	0
10	-
11	0
12	-
13	14.3
14	-
15	0.5
16	-
17	0
18	-
19	30
20	-
21	16.2
22	-
23	0
Q001	
E	2.0
B	2.6
C	4.5
Q002	
E	3.8
B	4.5
C	8.8
Q101	
E	0
B	0
C	4.8
Q621	
E	0.1
B	0
C	-0.6
Q622	-
Q623	
E	0
B	-0.6
C	0
Q624	
E	0
B	-0.6
C	0
Q628	
E	0
B	0.1
C	3.8
Q629	
E	0
B	0.5
C	0
Q632	
E	5.1
B	5.5
C	-2.2
Q641	
E	-0.2
B	0
C	-0.7
Q642	
E	0
B	-0.6
C	4.0
Q643	
E	0
B	-0.6
C	4.1
TU001	
1	1.7
2	3.3
3	0
4	4.4
5	4.4
6	0
7	4.7
8	0
9	31.7
10	0
11	2.3
12	0
13	2.4
14	0
15	4.8
16	1.3
17	1.7
18	0
19	4.4
20	4.4
21	1.9
22	2.6

MAIN PWB CIRCUIT DIAGRAM (2/2) SHEET 2

TO MICOM/100Hz PB

CN002 QGC2507C1-96

CN00C1 QGA2501F1-06

CN00F QGA2501C1-12

CN001 QGB1505J1-35

CN00K QGA2501C5-05Z

CN00B QGA2501C5-04Z

CN00T QGA2501C5-03Z

CN00R QGA2501C1-09

IC551

IC701 AT24LC-28X37SUE AT24LC-28X37HKE EEPROM

IC201 CXA2089Q-X AV SELECT

IC501 BA10324AF-XE

IC901 AN78L08-T

IC902 MM1565AF-X

Q701 PNP RESET

Q702 NPN RESET

Q207 DTC323TK-X MUTING

Q210 PNP MUTING

Q211 DTC323TK-X MUTING

Q212 PNP MUTING

Q213 DTC323TK-X MUTING

Q214 DTC323TK-X MUTING

Q215 PNP

Q216 NPN BUFFER

Q217 NPN

Q218 DTC323TK-X SW

Q219 DTC323TK-X SW

Q501 NPN EHT CORRECT

Q502 NPN EHT CORRECT

Q503 OPEN INV

Q504 OPEN INV

Q305 NPN

MAIN PWB ASSY(2/2)

SML-1002A-U2:AV-28X37SUE,AV-28X37HIE,AV-28H35SUE,
AV-28H35BUE,AV-28X35HUE
SML-1902A-U2:AV-28X37HKE,AV-28X35HKE

#:COLOUR(S,H,B,etc)

TO SIDE CTRL PWB ASSY

TO FRONT CTRL PWB ASSY

TO OPT SKT PWB ASSY

TO AV JACK PWB ASSY

TO POW & DEF PWB ASSY

28inch	SML-1002A-U2 1902A-U2
IC551	OPEN
R551	OPEN
R552	OPEN
R553	OPEN
R554	OPEN
R555	OPEN
R556	OPEN
R557	OPEN
R558	OPEN
R559	OPEN
R560	OPEN
C551	OPEN
C552	OPEN
C553	OPEN
C554	OPEN
C555	OPEN
CNORT	OPEN

CN002-4 (H) 23Vp-p

CN002-5 (H) 3Vp-p

CN002-10 (V) 1.8Vp-p

CN002-11 (V) 1.8Vp-p

CN002-13 (V) 1.3Vp-p

CN002-14 (H) 6.8Vp-p

CN002-24 (H) 2Vp-p

CN002-25 (H) 2Vp-p

CN002-26 (H) 2.1Vp-p

CN002-31 (H) 3.4Vp-p

CN002-32 (H) 3.2Vp-p

IC201-23 (H) 1Vp-p

IC201-33 (H) 2.2Vp-p

IC201-40 (H) 2.2Vp-p

IC201-43 (H) 2Vp-p

IC201-45 (H) 1Vp-p

CN003 QGB1506L1-16

PIN NO.	VOLTAGE (V)
IC201	
1	3.8
2	4.3
3	3.8
4	4.3
5	4.3
6	6.5
7	7.0
8	3.8
9	4.3
10	3.8
11	0
12	4.3
13	6.5
14	0

PIN NO.	VOLTAGE (V)
15	3.8
16	4.3
17	3.8
18	4.3
19	4.3
20	6.5
21	0
22	4.3
23	4.3
24	4.3
25	0
26	4.4
27	4.4
28	4.3
29	4.2

PIN NO.	VOLTAGE (V)
30	4.3
31	3.4
32	4.4
33	3.4
34	8.8
35	0
36	4.8
37	4.3
38	4.3
39	4.3
40	4.4
41	4.3
42	0
43	4.1
44	0

PIN NO.	VOLTAGE (V)
45	4.2
46	4.3
47	3.8
48	4.3
IC501	
1	5.7
2	5.7
3	5.7
4	12.0
5	3.3
6	3.3
7	2.2
8	2.5
9	0
10	2.4

PIN NO.	VOLTAGE (V)
11	0
12	2.9
13	2.9
14	0
IC701	
1	0
2	0
3	0
4	0
5	3.2
6	3.2
7	0
8	3.2
IC901	
1	12

PIN NO.	VOLTAGE (V)
2	8.0
3	0
IC902	
1	4.9
2	0
3	0
4	3.3
5	5.5
6	0
7	5.5

CN004 QGB1506L1-16

CN005 QGB1506L1-16

PIN NO.	VOLTAGE (V)
Q201	
E	4.4
B	0
C	4.4
Q202	
E	4.4
B	0
C	4.4
Q203	
E	0
B	0
C	6.5
Q204	
E	0
B	0

PIN NO.	VOLTAGE (V)
C	6.5
Q205	
E	0
B	0
C	6.5
Q206	
E	0
B	0
C	6.5
Q207	
E	0
B	-0.8
C	0
Q208	
E	0

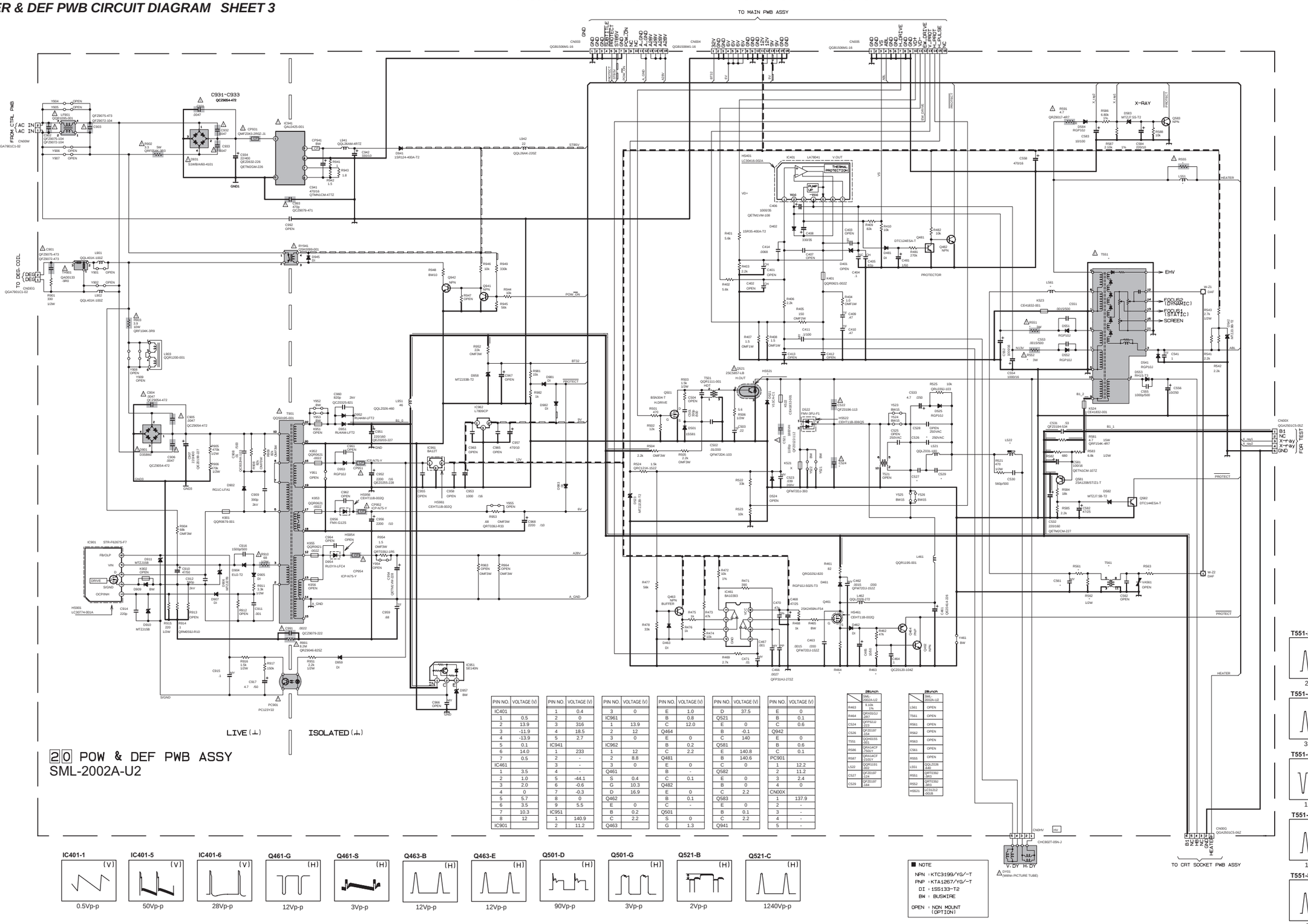
PIN NO.	VOLTAGE (V)
B	0
C	6.5
Q209	
E	0
B	0
C	6.5
Q210	
E	0
B	0
C	-0.6
Q211	
E	0
B	-0.6
C	0
Q212	

PIN NO.	VOLTAGE (V)
E	0
B	0
C	-0.6
Q213	
E	0
B	-0.7
C	0
Q214	
E	0
B	-0.5
C	0
Q215	
E	2.0
B	1.3
C	0

PIN NO.	VOLTAGE (V)
Q216	
E	3.7
B	4.4
C	8.8
Q217	
E	2.8
B	3.4
C	8.8
Q305	
E	1.0
B	1.7
C	5.8
Q501	
E	0.1
B	-1.2

PIN NO.	VOLTAGE (V)
C	12
Q502	
E	1.0
B	1.6
C	4.9
Q701	
E	5.4
B	5.6
C	-
Q702	
E	0
B	-
C	3.4

POWER & DEF PWB CIRCUIT DIAGRAM SHEET 3



20 POW & DEF PWB ASSY
SML-2002A-U2

PIN NO.	VOLTAGE (V)
IC401	
1	0.5
2	13.9
3	-11.9
4	-13.9
5	0.1
6	14.0
7	0.5
IC461	
1	3.5
2	1.0
3	2.0
4	0
5	5.7
6	3.5
7	10.3
8	12
IC901	

PIN NO.	VOLTAGE (V)
1	0.4
2	0
3	316
4	18.5
5	2.7
IC941	
1	233
2	-
3	-
4	-
5	-44.1
6	-0.6
7	-0.3
8	0
9	5.5
IC951	
1	140.9
2	11.2

PIN NO.	VOLTAGE (V)
3	0
IC961	
1	13.9
2	12
3	0
IC962	
1	12
2	8.8
3	0
Q461	
S	0.4
G	10.3
D	16.9
Q462	
E	0
B	0.2
C	2.2
Q463	

PIN NO.	VOLTAGE (V)
E	1.0
B	0.8
C	12.0
Q464	
E	0
B	0.2
C	2.2
Q481	
E	0
B	-
C	0.1
Q482	
E	0
B	0.1
C	-
Q501	
S	0
G	1.3

PIN NO.	VOLTAGE (V)
D	37.5
Q521	
E	0
B	-0.1
C	140
Q581	
E	140.8
B	140.6
C	0
Q582	
E	0
B	0
C	2.2
Q583	
E	0
B	0.1
C	2.2
Q941	

PIN NO.	VOLTAGE (V)
E	0
B	0.1
C	0.6
Q942	
E	0
B	0.6
C	0.1
PC901	
1	12.2
2	11.2
3	2.4
4	0
CN00X	
1	137.9
2	-
3	-
4	-
5	-

28inch SML-2002A-U2

R463	9.10k 1%
R464	QRX01GJ-287
C524	QFP32J2-223
C526	QFZ0197-154
T551	QQH0155-001
R586	QRA14CF-7501Y
R587	QRA14CF-2101Y
L522	QQR1191-002
C527	QFZ0197-124
C529	QFZ0197-184

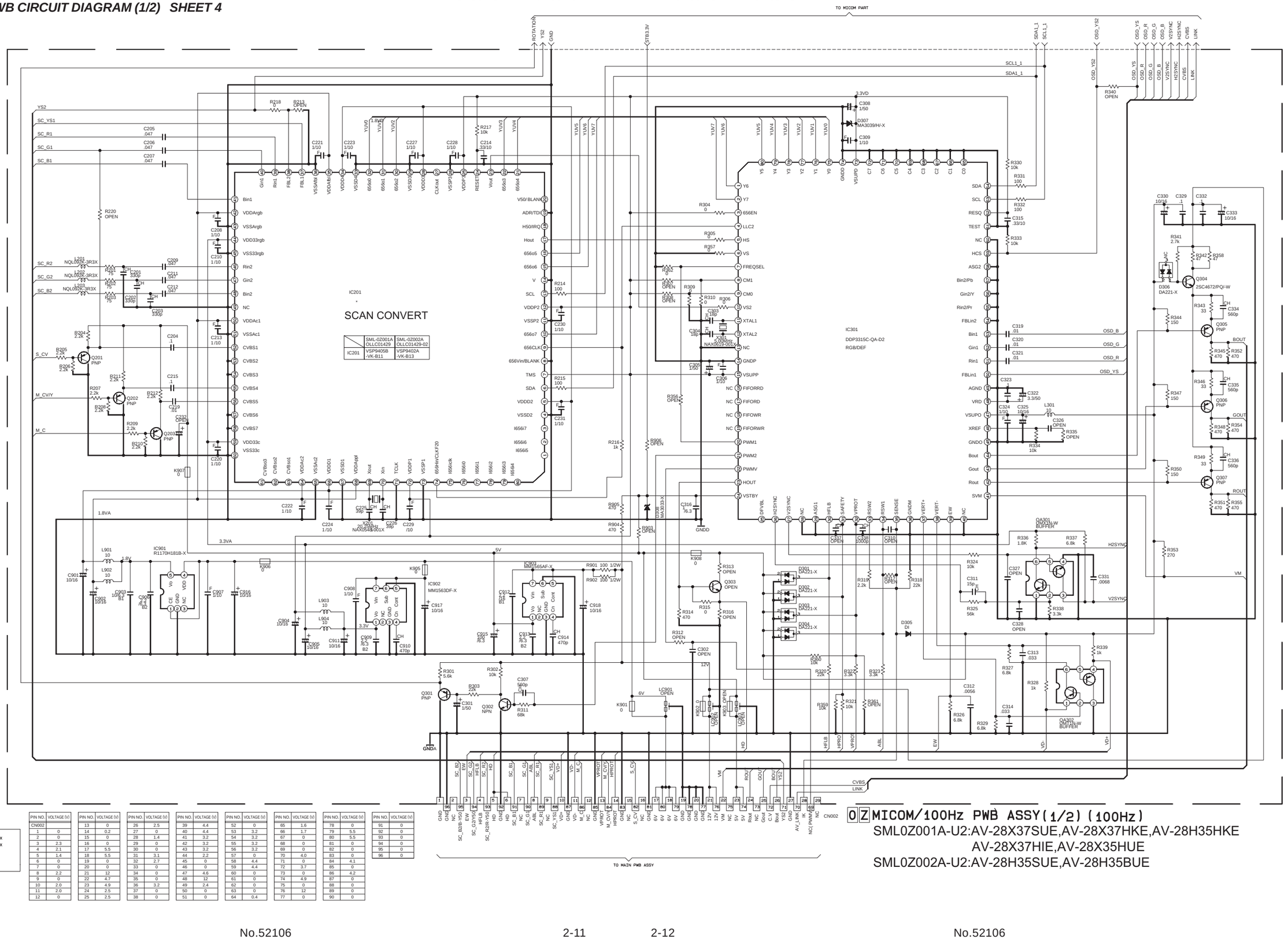
28inch SML-2002A-U2

L561	OPEN
T561	OPEN
R561	OPEN
R562	OPEN
R563	OPEN
C561	OPEN
R555	OPEN
L551	QQL2026-640
R551	QRT0392-3R3
R552	QRT0392-3R3
HS541	LC31212-001B

IC401-1 (V) 0.5Vp-p
IC401-5 (V) 50Vp-p
IC401-6 (V) 28Vp-p
Q461-G (H) 12Vp-p
Q461-S (H) 3Vp-p
Q463-B (H) 12Vp-p
Q463-E (H) 12Vp-p
Q501-D (H) 90Vp-p
Q501-G (H) 3Vp-p
Q521-B (H) 2Vp-p
Q521-C (H) 1240Vp-p

■ NOTE
NPN : KTC3199/YG/-T
PNP : KTA1267/YG/-T
DI : 1SS133-T2
BW : BUSWIRE
OPEN : NON MOUNT (OPTION)

100Hz PWB CIRCUIT DIAGRAM (1/2) SHEET 4



NOTE
NPN: 2SD601A/GR/-X
PNP: 2SB709A/GR/-X
DI : MA111-X
0: CHIP BUS WIRE

PIN NO.	VOLTAGE (V)
CN002	
1	0
2	0
3	2.3
4	2.1
5	1.4
6	0
7	0
8	2.2
9	0
10	2.0
11	2.0
12	0

PIN NO.	VOLTAGE (V)
13	0
14	0.2
15	0
16	0
17	5.5
18	5.5
19	0
20	0
21	12
22	4.7
23	4.9
24	2.5
25	2.5

PIN NO.	VOLTAGE (V)
26	2.5
27	0
28	1.4
29	0
30	0
31	3.1
32	2.7
33	0
34	0
35	0
36	3.2
37	0
38	0

PIN NO.	VOLTAGE (V)
39	4.4
40	4.4
41	3.2
42	3.2
43	3.2
44	2.2
45	0
46	0
47	4.6
48	12
49	2.4
50	0
51	0

PIN NO.	VOLTAGE (V)
52	0
53	3.2
54	3.2
55	3.2
56	3.2
57	0
58	4.4
59	4.4
60	0
61	0
62	0
63	0
64	0.4

PIN NO.	VOLTAGE (V)
65	1.6
66	1.7
67	0
68	0
69	0
70	4.0
71	0
72	3.7
73	0
74	4.9
75	0
76	12
77	0

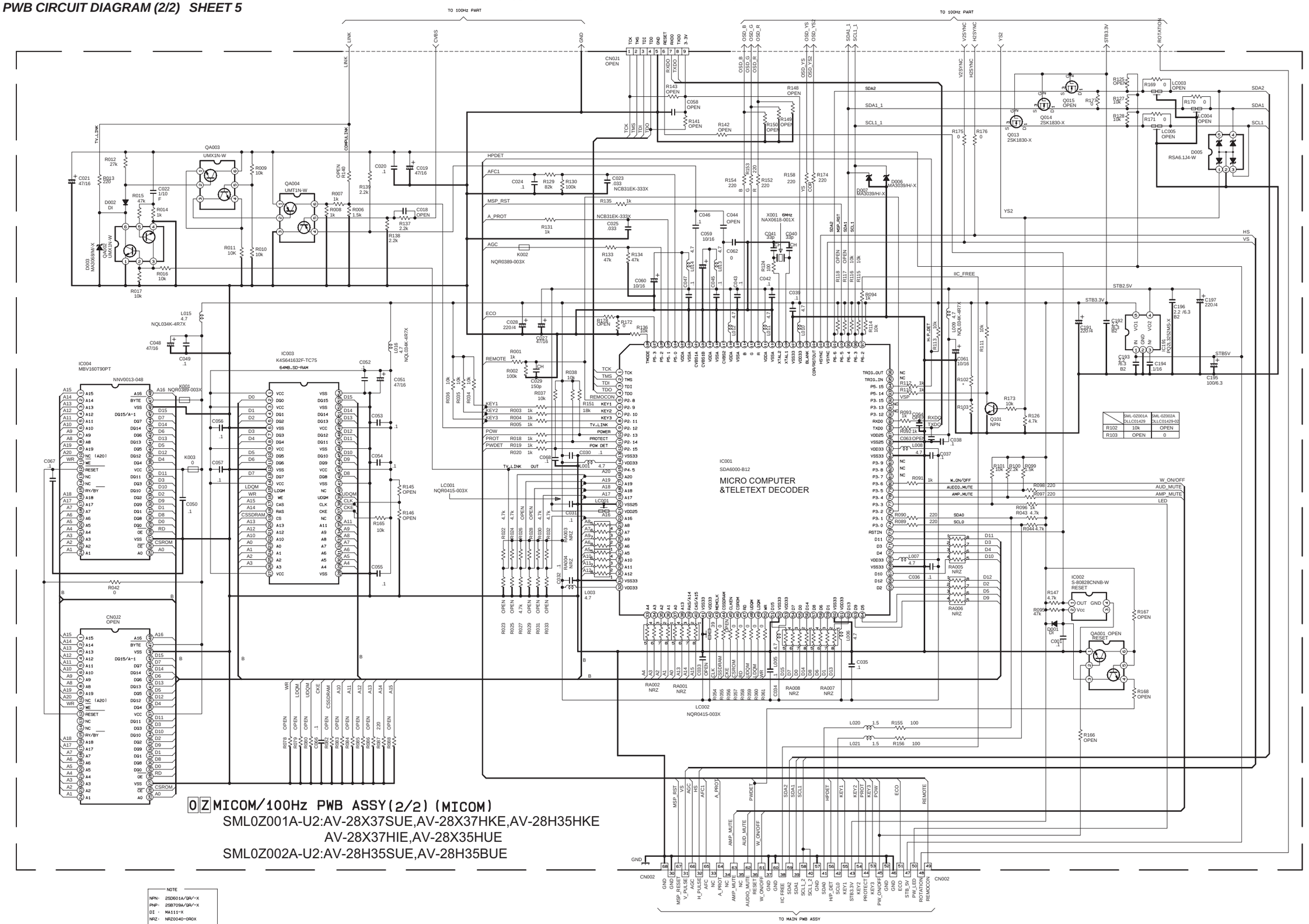
PIN NO.	VOLTAGE (V)
78	0
79	5.5
80	5.5
81	0
82	0
83	0
84	4.1
85	0
86	4.2
87	0
88	0
89	0
90	0

PIN NO.	VOLTAGE (V)
91	0
92	0
93	0
94	0
95	0
96	0

0Z MICOM/100Hz PWB ASSY(1/2)(100Hz)
SML0Z001A-U2:AV-28X37SUE,AV-28X37HKE,AV-28H35HKE
AV-28X37HIE,AV-28X35HUE
SML0Z002A-U2:AV-28H35SUE,AV-28H35BUE

AV-28X37SUE
AV-28X37HKE AV-28X35HKE
AV-28X37HIE AV-28H35SUE
AV-28X35HUE AV-28H35BUE

100Hz PWB CIRCUIT DIAGRAM (2/2) SHEET 5



	SML-0Z001A DLLC01429	SML-0Z002A DLLC01429-02
R102	10k	OPEN
R103	OPEN	0

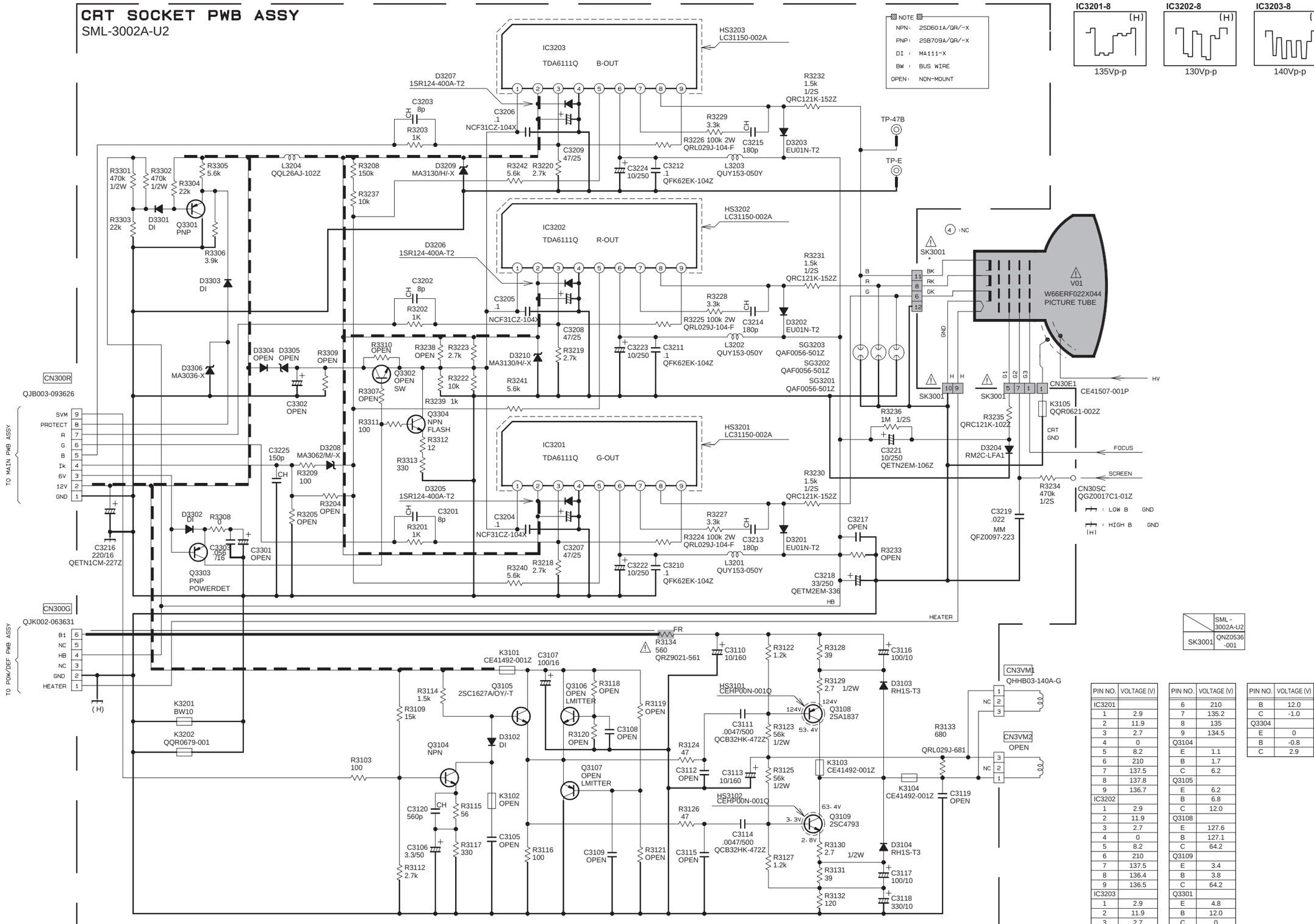
0Z MICOM/100Hz PWB ASSY(2/2)(MICOM)

SML0Z001A-U2:AV-28X37SUE,AV-28X37HKE,AV-28H35HKE
AV-28X37HIE,AV-28X35HUE
SML0Z002A-U2:AV-28H35SUE,AV-28H35BUE

CRT SOCKET PWB CIRCUIT DIAGRAM SHEET 6

CRT SOCKET PWB ASSY

SML-3002A-U2



SML - 3002A-U2	
SK3001	QNZ0536 -001

PIN NO.	VOLTAGE (V)
IC3201	
1	2.9
2	11.9
3	2.7
4	0
5	8.2
6	210
7	137.5
8	137.8
9	136.7
IC3202	
1	2.9
2	11.9
3	2.7
4	0
5	8.2
6	210
7	137.5
8	136.4
9	136.5
IC3203	
1	2.9
2	11.9
3	2.7
4	0
5	8.2

PIN NO.	VOLTAGE (V)
6	210
7	135.2
8	135
9	134.5
Q3104	
E	1.1
B	1.7
C	6.2
Q3105	
E	6.2
B	6.8
C	12.0
Q3108	
E	127.6
B	127.1
C	64.2
Q3109	
E	3.4
B	3.8
C	64.2
Q3301	
E	4.8
B	12.0
C	0
Q3303	
E	11.8

PIN NO.	VOLTAGE (V)
B	12.0
C	-1.0
Q3304	
E	0
B	-0.8
C	2.9

FRONT CONTROL PWB CIRCUIT DIAGRAM SHEET 7

TO POW/DEF PB ASSY

CN800W
WJK0050-002A

LIVE

ISOLATED

LF8901
QQR1095-001

Y8907
OPEN

Y8908
OPEN

Y8906
OPEN

Y8905
OPEN

C8901
.47 AC275V
QFZ9072-474
or QFZ9075-474

VA8901
OPEN

FC8902
CEMG002-001Z

F8901
T3.15A H
QMF51D2-3R15J1

FC8901
CEMG002-001Z

MAIN
POWER

S8901
QSW0824-001

PW
CN80P W
QGAB801C1-02

BRN

BLU

AC230V 50Hz
(AC220~240V)

POWER CORD
UE: QMPK160-185-JC
KE, IE: QMPN130-185-JC
AE: QMP2980-185J5

PIN NO.	VOLTAGE (V)
IC8851	
1	2.4
2	4.6
3	0
Q8801	
E	4.6
B	1.5
C	0
Q8802	
E	4.6
B	0
C	1.5
Q8803	
E	0
B	0
C	4.6

Q8801
UN2112-X

Q8802
UN2112-X

R8804
10k

Q8803
UN2212-X
BUFFER

R8803
OPEN

R8801
560

R8802
560

[G] [R]

D8801
SPR-39MVWF
POWER

5V

POW_LED

GND

IC8851
GP1UM281Q K

R8851
1k

C8851
.1/16

C8852
100/16

D8851
MA3068/M/-X

80

FRONT PB ASSY
SML-8001A-U2

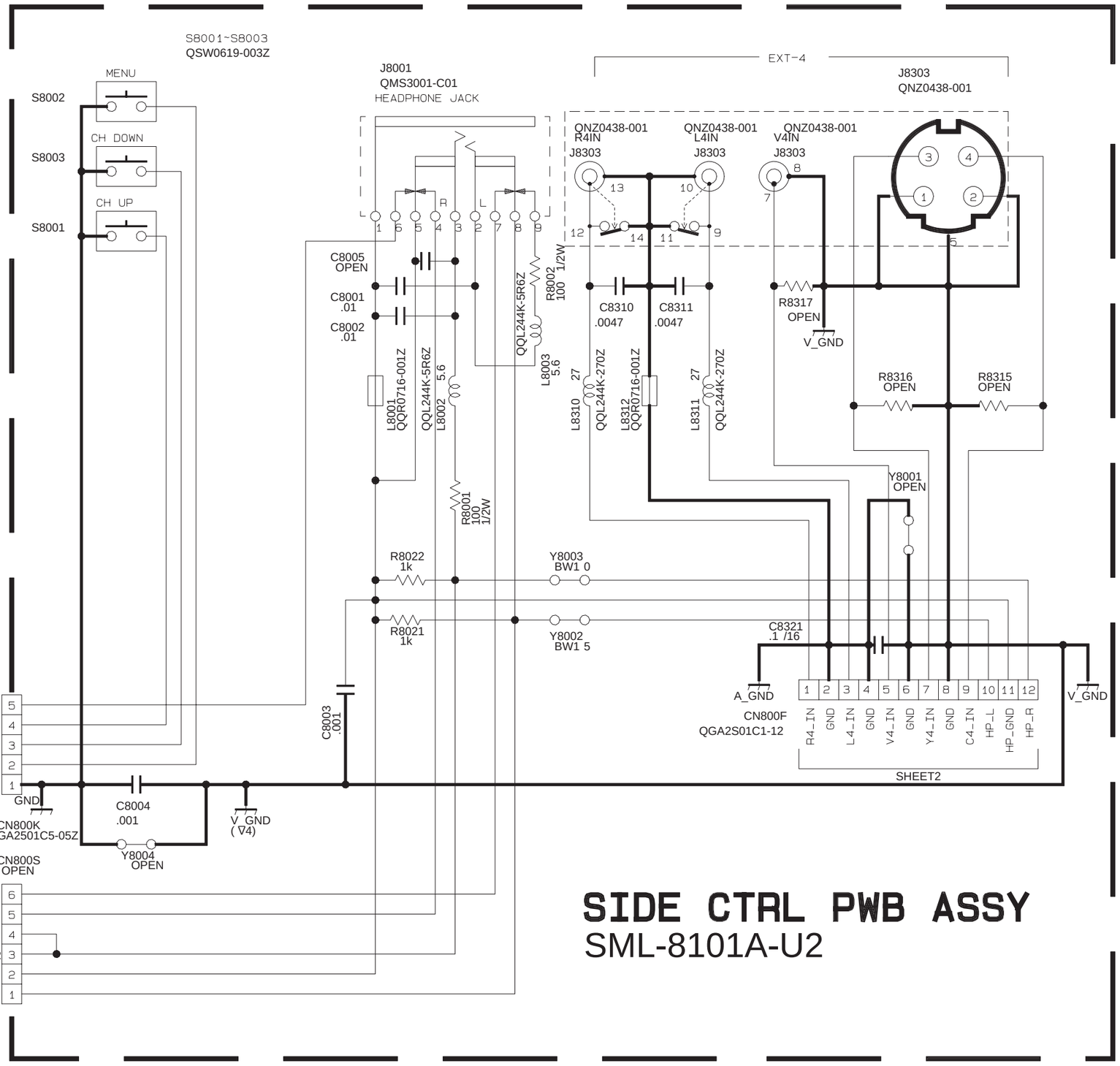
CN800B
QGA2501C5-04Z

POW_LED
REMOCON
GND
STB_5V

TO MAIN PB ASSY

AV-28X37SUE
AV-28X37HKE AV-28X35HKE
AV-28X37HIE AV-28H35SUE
AV-28X35HUE AV-28H35BUE

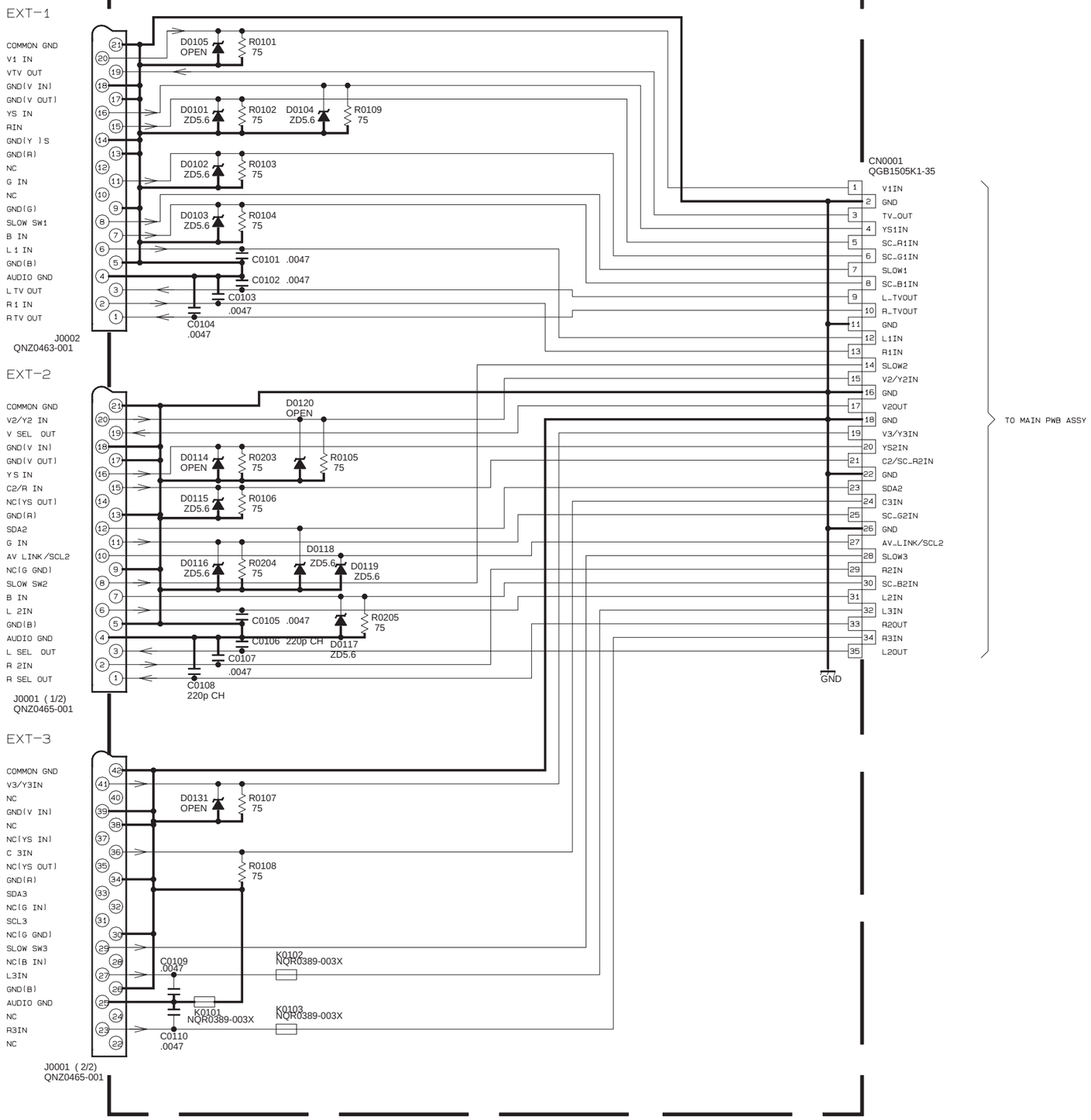
SIDE CONTROL PWB CIRCUIT DIAGRAM SHEET 8



NPN: 2SD601A/QR/-X
PNP: 2SB709A/QR/-X
DI : MA111-X
DTC: DTC124EKA-X
DTA: DTA124EKA-X
0: NRSA63J-0R0X
BW: 5mm IM-BW
BW10: 10mm IM-BW
BW15: 15mm IM-BW

AV JACK PWB CIRCUIT DIAGRAM SHEET 9

0J AV JACK PWB ASSY
SML0J001A-U2

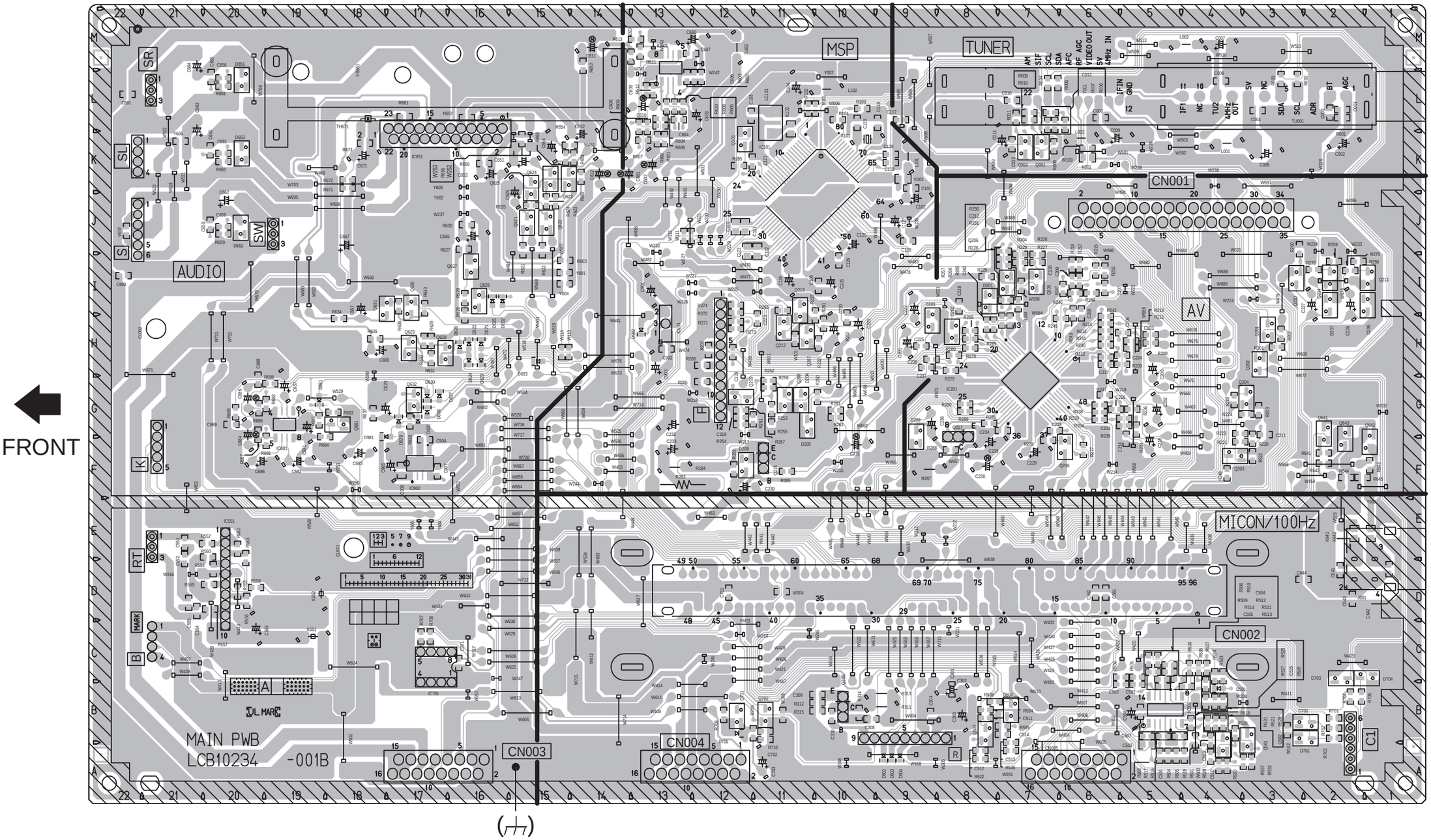


NOTE

OPEN	:OPTION(NON MOUNT)
BW	:5mm IM-BW(QUY153-050Y)
O	:NRSA63J-0R0X
ZD5.6	: MA3056/M/-X

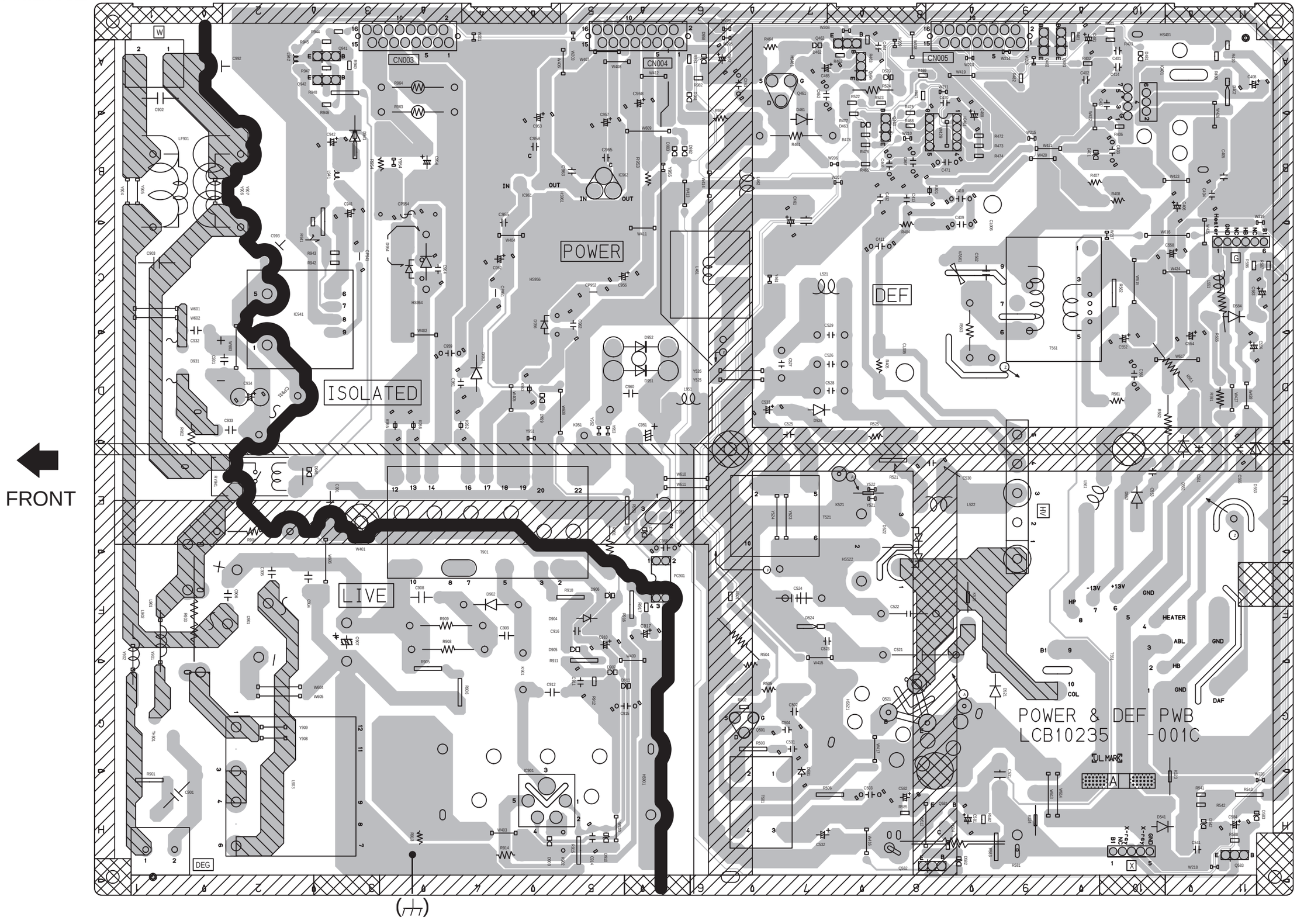
PATTERN DIAGRAMS

MAIN PWB PATTERN



AV-28X37SUE
AV-28X37HKE AV-28X35HKE
AV-28X37HIE AV-28H35SUE
AV-28X35HUE AV-28H35BUE

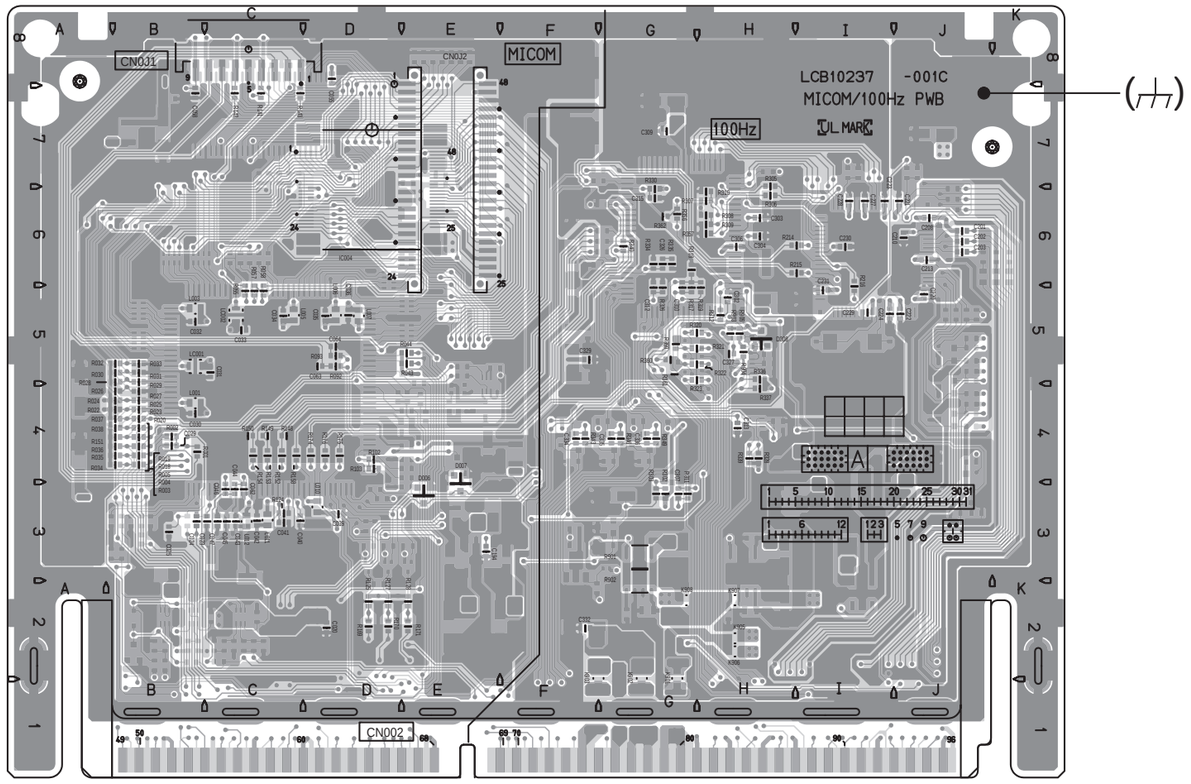
POWER & DEF PWB PATTERN



AV-28X37SUE
AV-28X37HKE AV-28X35HKE
AV-28X37HIE AV-28H35SUE
AV-28X35HUE AV-28H35BUE

100Hz PWB PATTERN [SOLDER SIDE]

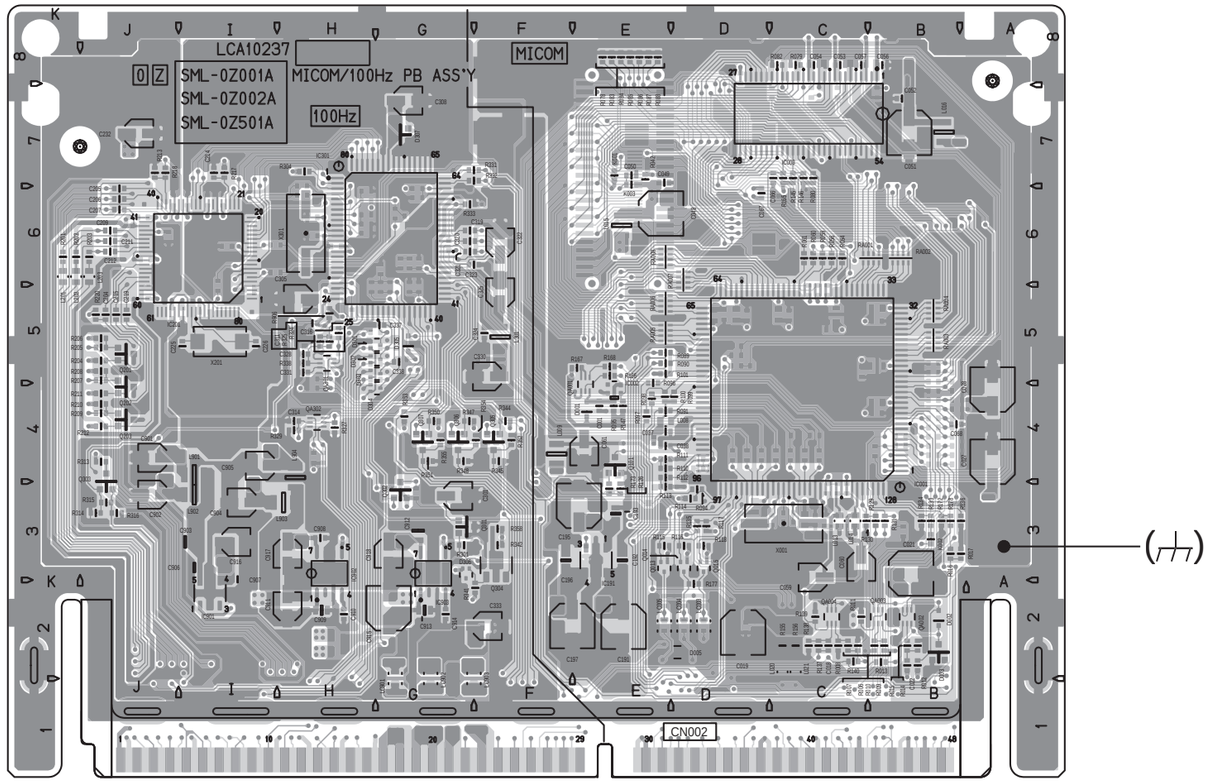
TOP



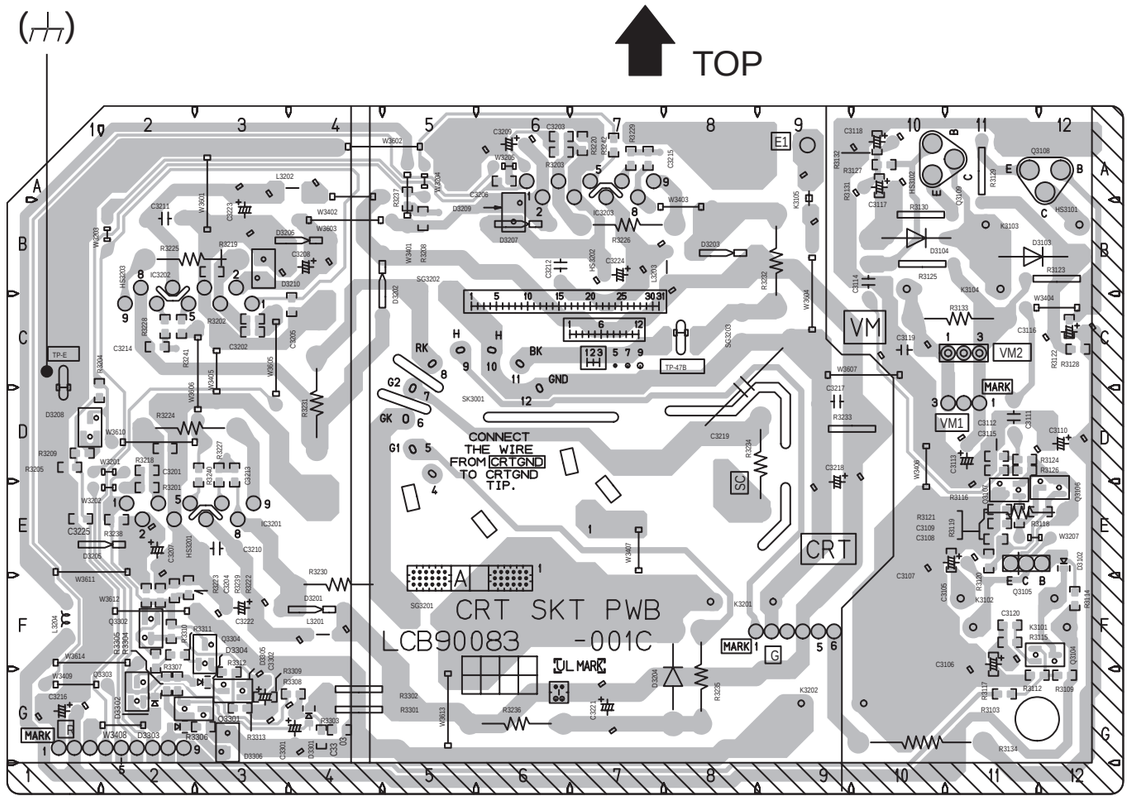
AV-28X37SUE
AV-28X37HKE AV-28X35HKE
AV-28X37HIE AV-28H35SUE
AV-28X35HUE AV-28H35BUE

100Hz PWB PATTERN [PARTS SIDE]

TOP

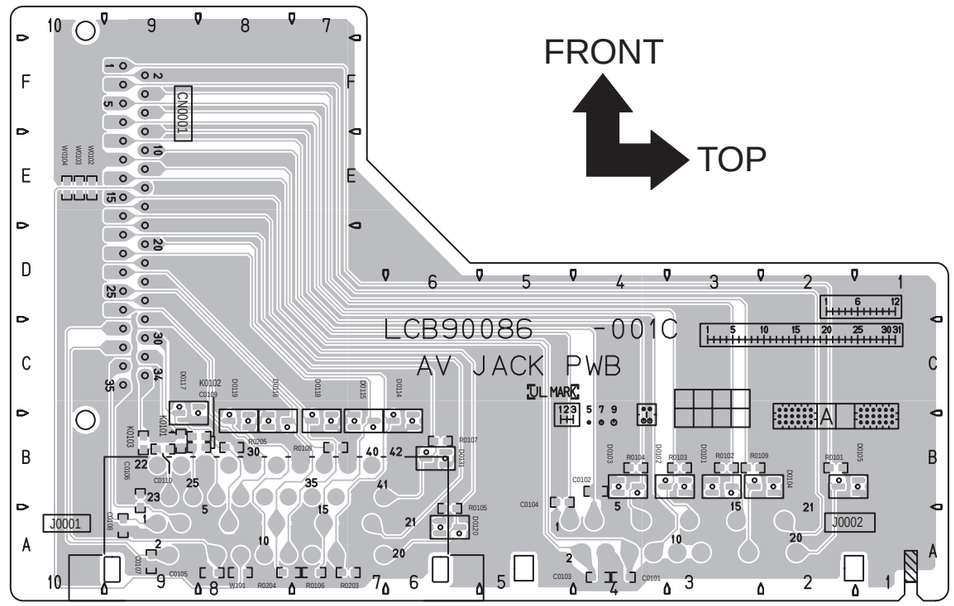


CRT SOCKET PWB PATTERN

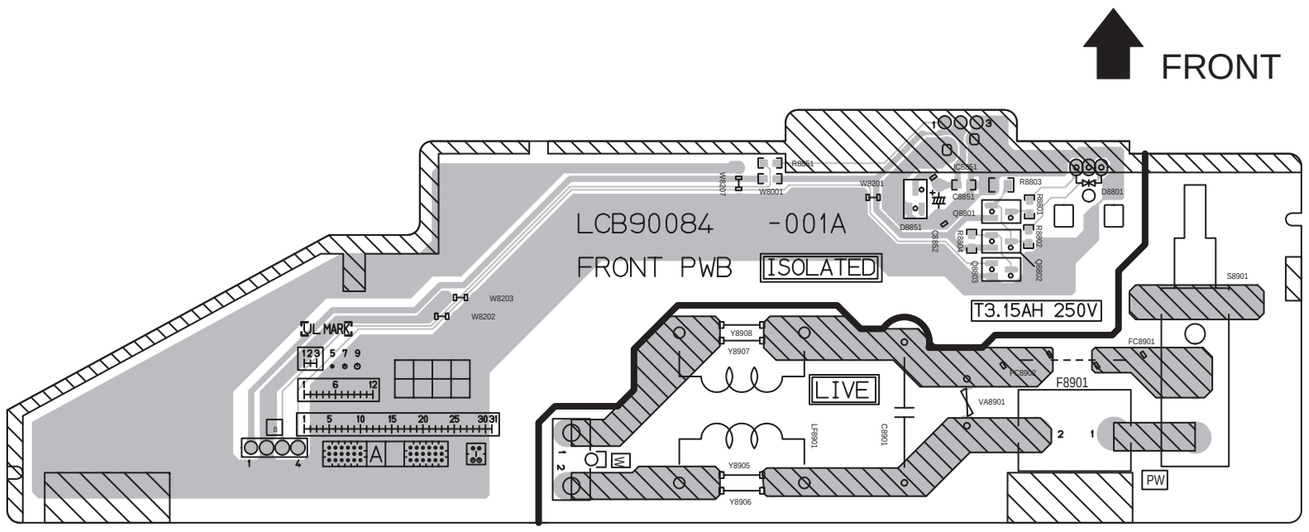


AV-28X37SUE
AV-28X37HKE AV-28X35HKE
AV-28X37HIE AV-28H35SUE
AV-28X35HUE AV-28H35BUE

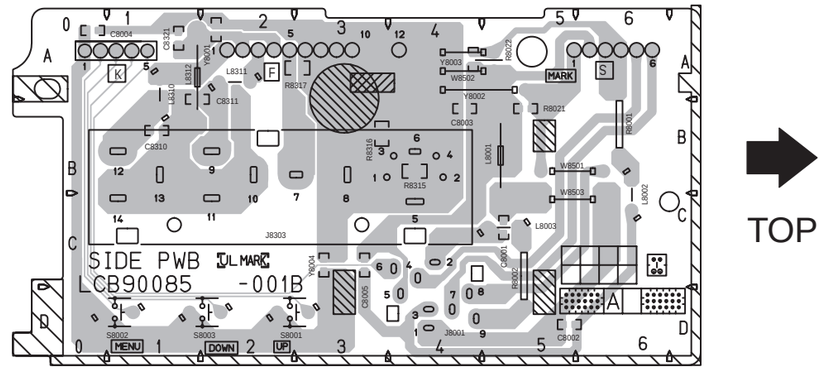
AV JACK PWB PATTERN



FRONT CONTROL PWB PATTERN



SIDE CONTROL PWB PATTERN



PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS	
CR	Carbon Resistor
FR	Fusible Resistor
PR	Plate Resistor
VR	Variable Resistor
HV R	High Voltage Resistor
MF R	Metal Film Resistor
MG R	Metal Glazed Resistor
MP R	Metal Plate Resistor
OM R	Metal Oxide Film Resistor
CMF R	Coating Metal Film Resistor
UNF R	Non-Flammable Resistor
CH V R	Chip Variable Resistor
CH MG R	Chip Metal Glazed Resistor
COMP. R	Composition Resistor
LPTC R	Linear Positive Temperature Coefficient Resistor

CAPACITORS	
C CAP.	Ceramic Capacitor
E CAP.	Electrolytic Capacitor
M CAP.	Mylar Capacitor
CH CAP.	Chip Capacitor
HV CAP.	High Voltage Capacitor
MF CAP.	Metalized Film Capacitor
MM CAP.	Metalized Mylar Capacitor
MP CAP.	Metalized Polystyrol Capacitor
PP CAP.	Polypropylene Capacitor
PS CAP.	Polystyrol Capacitor
TF CAP.	Thin Film Capacitor
MPP CAP.	Metalized Polypropylene Capacitor
TAN. CAP.	Tantalum Capacitor
CH C CAP.	Chip Ceramic Capacitor
BP E CAP.	Bi-Polar Electrolytic Capacitor
CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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USING P.W. BOARD & REMOTE CONTROL UNIT

[AV-28X37SUE / AV-28X37HKE / AV-28X35HKE / AV-28X37HIE]

P.W.B ASS'Y	AV-28X37SUE	AV-28X37HKE	AV-28X35HKE	AV-28X37HIE
MAIN PWB	SML-1002A-U2	SML-1902A-U2	←	SML-1002A-U2
POWER & DEF PWB	SML-2002A-U2	←	←	←
100Hz PWB	SML0Z001A-U2	←	←	←
CRT SOCKET PWB	SML-3002A-U2	←	←	←
FRONT CONTROL PWB	SML-8001A-U2	←	←	←
SIDE CONTROL PWB	SML-8101A-U2	←	←	←
AV JACK PWB	SML0J001A-U2	←	←	←
REMOTE CONTROL UNIT	RM-C54H-1C	RM-C55H-1C	←	←

[AV-28H35SUE / AV-28H35BUE / AV-28X35HUE]

P.W.B ASS'Y	AV-28H35SUE	AV-28H35BUE	AV-28X35HUE
MAIN PWB	SML-1002A-U2	←	←
POWER & DEF PWB	SML-2002A-U2	←	←
100Hz PWB	SML0Z002A-U2	←	SML0Z001A-U2
CRT SOCKET PWB	SML-3002A-U2	←	←
FRONT CONTROL PWB	SML-8001A-U2	←	←
SIDE CONTROL PWB	SML-8101A-U2	←	←
AV JACK PWB	SML0J001A-U2	←	←
REMOTE CONTROL UNIT	RM-C54H-1C	RM-C50-1C	RM-C54H-1C

EXPLODED VIEW PARTS LIST -1

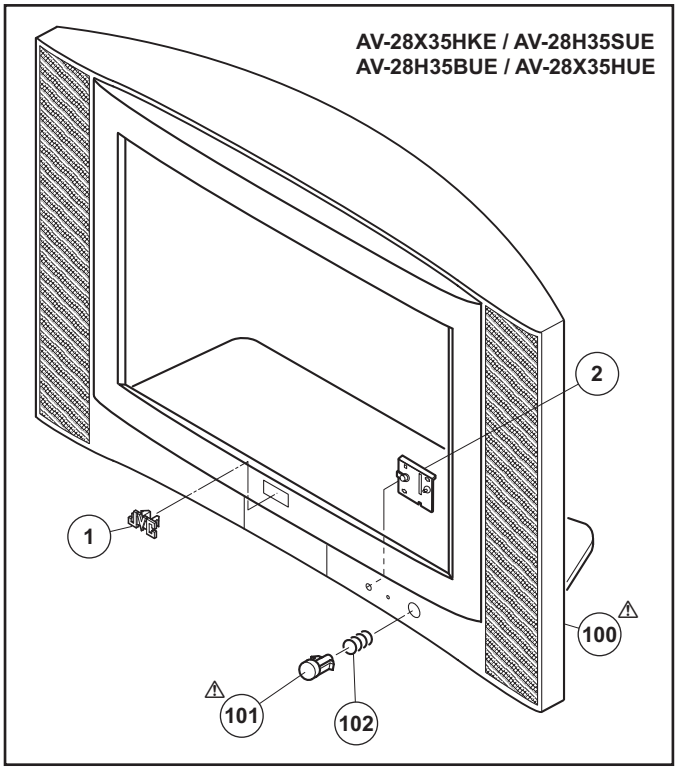
[AV-28X35HKE / AV-28H35SUE / AV-28H35BUE / AV-28X35HUE]

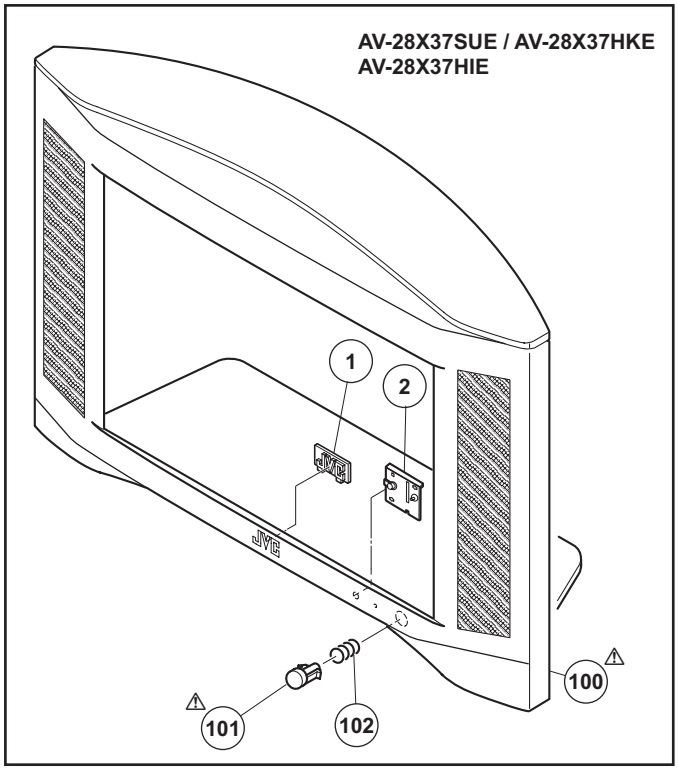
⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	LC41250-003C-C	JVC MARK		H35BUE
	1	LC41250-002C-C	JVC MARK		H35SUE
	1	LC41250-001C-C	JVC MARK		X35HKE / X35HUE
	2	LC32229-001A-C	WINDOW		H35SUE
	2	LC31851-001B-C	WINDOW		H35BUE / X35HKE / X35HUE
⚠	100	LC11313-009A-U	F.CABI ASSY	Included 101, 102	H35BUE
⚠	100	LC11313-007A-U	F.CABI ASSY	IIncluded 101, 102	H35SUE
⚠	100	LC11313-008A-U	F.CABI ASSY	Included 101, 102	X35HKE / X35HUE
⚠	101	LC31201-005A-U	POWER KNOB		H35BUE
⚠	101	LC31201-003A-U	POWER KNOB		H35SUE / X35HKE / X35HUE
	102	AEM3149-001-E	SPRING		

[AV-28X37SUE / AV-28X37HKE / AV-28X37HIE]

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	LC41522-001B	JVC MARK		X37HIE / X37HKE
	1	LC41522-002B	JVC MARK		X37SUE
	2	LC32229-001A-C	WINDOW		
⚠	100	LC11562-002A-U	F CABI ASSY	Included 101, 102	X37HIE / X37HKE
⚠	100	LC11562-001A-U	F CABI ASSY	Included 101, 102	X37SUE
⚠	101	LC31201-003A-U	POWER KNOB		
	102	AEM3149-001-E	SPRING		

EXPLODED VIEW -1

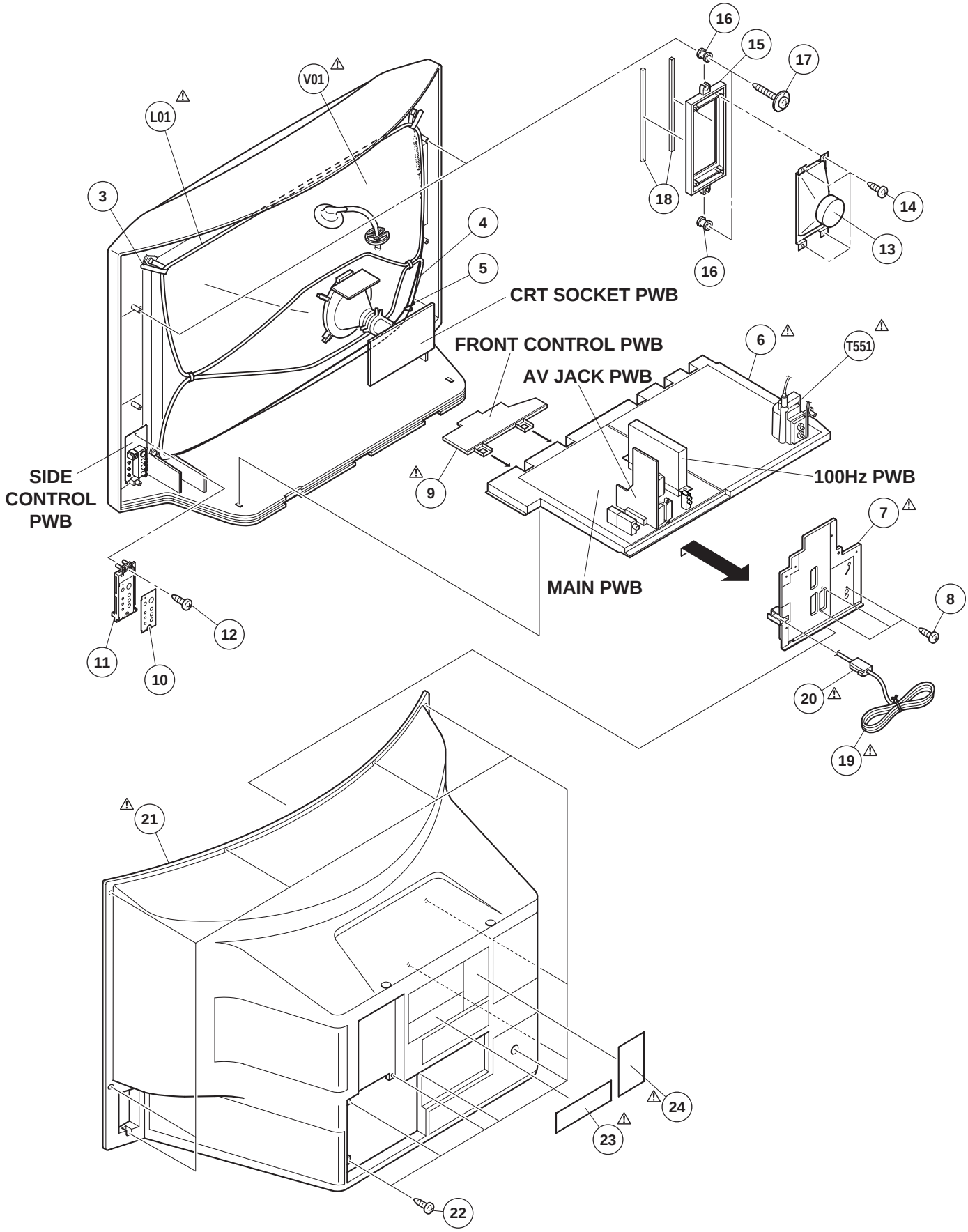




EXPLODED VIEW PARTS LIST -2

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	W66ERF022X044	ITC	Included def.yoke, PC magnet	
⚠	L01	QQW0168-001	DEG COIL		
⚠	T551	QQH0155-001	FB TRANSF		
	3	LC30628-002A	DEG CLAMP	(x4)	
	4	WJY0021-001A	E-BRAIDED ASSY		
	5	WJY0013-002A	E-BRAIDED ASSY		
⚠	6	LC10716-002H-U	CHASSIS BASE		
⚠	7	LC11561-002A-U	AV BOARD		H35BUE
⚠	7	LC11561-001A-U	AV BOARD		H35SUE / X35HKE / X35HUE / X37HIE / X37HKE / X37SUE
	8	QYSBSF3012M	TAP SCREW	3mm x 12mm(x3)	
⚠	9	LC11311-001B-U	CONTROL BASE		
	10	LC31205-002A-U	CONTROL SHEET		
	11	LC10856-002A-U	SIDE CONT BASE		
	12	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm	
	13	QAS0135-001	SPEAKER	SP01,02(x2)	H35BUE / X35HUE / H35SUE
	13	QAS0128-001	SPEAKER	SP01,02(x2)	X35HKE / X37HIE / X37HKE / X37SUE
	14	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm(x8)	
	15	LC11310-001B-U	SPEAKER ADAPTER	(x2)	
	16	LC40226-003A-H	SPACER	(x4)	
	17	CM42937-006	ASSY SCREW	(x4)	
	18	AEM4111-001A-U	SPONGE	(x4)	
⚠	19	QMPN130-185-JC	POWER CORD(EU)	1.85m BLACK	X35HKE / X37HIE / X37HKE
⚠	19	QMPK160-185-JC	POWER CORD(EU)	1.85m BLACK	H35BUE / H35SUE / X35HUE / X37SUE
⚠	20	CM46618-A01-E	POWER CORD CLMP		
⚠	21	LC11282-001C-U	REAR COVER		
	22	QYSBSAG4016N	TAP SCREW	4.0mm x 16mm(x8)	
⚠	23	LC11548-009A-U	RATING LABEL		H35BUE
⚠	23	LC11548-006A-U	RATING LABEL		H35SUE
⚠	23	LC11364-028A-U	RATING LABEL		X35HKE
⚠	23	LC11548-011A-U	RATING LABEL		X35HUE
⚠	23	LC11364-026A-U	RATING LABEL		X37HIE
⚠	23	LC11364-024A-U	RATING LABEL		X37HKE
⚠	23	LC11548-004A-U	RATING LABEL		X37SUE
⚠	24	LC30789-002B-U	WARNING LABEL		H35SUE / X35HUE / X37SUE ONLY

EXPLODED VIEW -2



PRINTED WIRING BOARD PARTS LIST

[AV-28H35BUE / AV-28H35SUE / AV-28X35HUE / AV-28X37HIE / AV-28X37SUE]
MAIN PW BOARD ASS'Y (SML-1002A-U2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC101	MSP3413G-QA-B3	IC		
IC201	CXA2089Q-X	IC		
IC501	BA10324AF-XE	IC		
IC601	BA4558F-X	IC		
IC651	AN5277	IC		
IC701	AT24LC-28X37SUE	IC	(SERVICE)	
IC901	AN78L08-T	IC		
IC902	MM1565AF-X	IC		
Q001	2SD601A/QR/-X	TRANSISTOR		
Q002	2SD601A/QR/-X	TRANSISTOR		
Q101	UN2213-X	DIGI TRANSISTOR		
Q201	2SD601A/QR/-X	TRANSISTOR		
Q202	2SD601A/QR/-X	TRANSISTOR		
Q203	2SD601A/QR/-X	TRANSISTOR		
Q204	2SD601A/QR/-X	TRANSISTOR		
Q205	2SD601A/QR/-X	TRANSISTOR		
Q206	2SD601A/QR/-X	TRANSISTOR		
Q207	DTC323TK-X	DIGI TRANSISTOR		
Q208	2SD601A/QR/-X	TRANSISTOR		
Q209	2SD601A/QR/-X	TRANSISTOR		
Q210	2SB709A/QR/-X	TRANSISTOR		
Q211	DTC323TK-X	DIGI TRANSISTOR		
Q212	2SB709A/QR/-X	TRANSISTOR		
Q213	DTC323TK-X	DIGI TRANSISTOR		
Q214	DTC323TK-X	DIGI TRANSISTOR		
Q215	2SA933AS/QR/-T	TRANSISTOR		
Q216	2SD601A/QR/-X	TRANSISTOR		
Q217	2SC1740S/QR/-T	TRANSISTOR		
Q305	2SC1740S/QR/-T	TRANSISTOR		
Q501	2SD601A/QR/-X	TRANSISTOR		
Q502	2SD601A/QR/-X	TRANSISTOR		
Q503	2SD601A/QR/-X	TRANSISTOR		
Q504	2SD601A/QR/-X	TRANSISTOR		
Q621	2SB709A/QR/-X	TRANSISTOR		
Q622	2SB709A/QR/-X	TRANSISTOR		
Q623	UN2213-X	DIGI TRANSISTOR		
Q624	UN2213-X	DIGI TRANSISTOR		
Q625	UN2213-X	DIGI TRANSISTOR		
Q626	UN2213-X	DIGI TRANSISTOR		
Q627	2SD601A/QR/-X	TRANSISTOR		
Q628	UN2213-X	DIGI TRANSISTOR		
Q629	2SD601A/QR/-X	TRANSISTOR		
Q632	2SB709A/QR/-X	TRANSISTOR		
Q641	2SB709A/QR/-X	TRANSISTOR		
Q642	DTC323TK-X	DIGI TRANSISTOR		
Q643	DTC323TK-X	DIGI TRANSISTOR		
Q701	2SB709A/QR/-X	TRANSISTOR		
Q702	2SD601A/QR/-X	TRANSISTOR		
D201	MA3120/M/-X	Z DIODE		
D202	MA3120/M/-X	Z DIODE		
D203	MA3120/M/-X	Z DIODE		
D204	MA3120/M/-X	Z DIODE		
D205	MA3120/M/-X	Z DIODE		
D206	MA3120/M/-X	Z DIODE		
D207	MA3120/M/-X	Z DIODE		
D208	MA3120/M/-X	Z DIODE		
D209	MA3120/M/-X	Z DIODE		
D501	MA111-X	SI DIODE		
D502	MA111-X	SI DIODE		
D503	MA111-X	SI DIODE		
D504	MA111-X	SI DIODE		
D621	MA111-X	SI DIODE		
D622	MA111-X	SI DIODE		
D623	MA111-X	SI DIODE		
D624	MA111-X	SI DIODE		
D625	MA111-X	SI DIODE		
D626	MA111-X	SI DIODE		
D627	MA111-X	SI DIODE		
D628	MA111-X	SI DIODE		
D629	MA111-X	SI DIODE		
D630	MA111-X	SI DIODE		
D631	MA111-X	SI DIODE		
D633	MA111-X	SI DIODE		
D651	MA3330/L/-X	Z DIODE		
D652	MA3330/L/-X	Z DIODE		
D653	MA3330/L/-X	Z DIODE		
D701	MA3056/M/-X	Z DIODE		
D702	MA3056/M/-X	Z DIODE		
D703	MA3056/M/-X	Z DIODE		
D704	MA3056/M/-X	Z DIODE		
D705	MA111-X	SI DIODE		
D981	MA111-X	SI DIODE		
D982	MA111-X	SI DIODE		
C001	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
C006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C007	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C009	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C010	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C102	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C104	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C105	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C117	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C119	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
C120	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C124	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C125	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C126	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C127	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C128	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C130	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C131	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C201	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C202	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C204	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C205	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C206	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C207	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C209	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C210	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C211	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C212	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C215	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C216	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C219	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C220	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C225	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C226	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C227	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C228	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C229	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C230	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M	
C231	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M	
C232	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C233	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C234	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C235	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C236	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C237	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C238	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C239	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C303	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C308	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C309	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C310	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C503	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠Ref No.	Part No.	Part Name	Description Local
C508	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C510	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
C511	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C513	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C551	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C552	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C553	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C554	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C555	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C601	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C602	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C603	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C604	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C605	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C606	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C607	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C608	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C609	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C610	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C611	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C623	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C641	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C642	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C650	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C651	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C652	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C654	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C657	QETM1VM-228	E CAPACITOR	2200uF 35V M
C663	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C664	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C665	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C666	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C701	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C901	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C904	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C905	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C906	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C907	NDC31HJ-471X	C CAPACITOR	470pF 50V J
R002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R007	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R008	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R009	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R010	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R203	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R204	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R210	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R212	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R213	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R215	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R216	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R218	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R219	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R220	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R221	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R222	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R223	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R224	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R225	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R226	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R227	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R229	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R230	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R231	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R232	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R233	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R234	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R235	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R236	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R237	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R239	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R240	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R243	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R245	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R246	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R247	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R248	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R249	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R250	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R251	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R252	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R253	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R255	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R256	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R257	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R258	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R259	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R260	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R261	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R262	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R263	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R265	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R267	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R268	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R271	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R272	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R273	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R274	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R275	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R276	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R277	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R279	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R280	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R281	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R282	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R283	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
R284	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J
R285	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R286	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R287	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J
R288	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R289	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R290	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R291	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R311	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J
R312	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R313	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J
R314	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R315	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R501	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R502	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R503	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R504	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R505	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R506	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R507	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R513	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R514	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R515	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R516	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R517	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R518	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R519	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R521	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R522	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R523	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R524	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R525	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R526	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R527	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R528	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R529	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R530	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R532	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R533	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R534	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R535	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R536	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R537	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R538	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R539	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R551	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R552	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R553	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R554	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R555	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R556	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R557	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R558	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R559	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R560	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R601	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R602	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R603	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R604	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R605	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R606	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R607	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R608	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R609	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R610	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R611	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R612	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R613	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R621	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R622	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R623	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R624	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R626	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R627	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R628	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R630	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R631	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R632	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R635	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R637	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R638	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R641	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R642	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R643	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R644	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R645	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R651	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R652	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R654	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R655	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R657	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R661	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R702	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R703	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R704	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R709	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R710	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
L001	QQL244K-270Z	COIL	27uH K
L002	QQL244K-100Z	COIL	10uH K
L003	QQL244K-100Z	COIL	10uH K
L101	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
L102	QQL244K-4R7Z	COIL	4.7uH K
CN001	QGB1505J1-35	CONNECTOR	B-B (1-35)
CN002	QGC2507C1-96	CONNECTOR	(1-96)
CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN004	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN005	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN00B	QJK002-042214	SIN CR C-B WIRE	
CN00F	QGA2501C1-12	CONNECTOR	W-B (1-12)
CN00K	QGA2501C5-05Z	CONNECTOR	W-B (1-5)
CN00R	QGA2501C1-10	CONNECTOR	W-B (1-10)
CN0C1	QGA2501F1-06	CONNECTOR	W-B (1-6)
CN0SL	QGA2501C5-04Z	CONNECTOR	W-B (1-4)
CN0SR	QGA2501C5-03Z	CONNECTOR	W-B (1-3)
HS651	LC30145-003A	HEAT SINK/AL-F/	
J001	QNN0296-001	PIN JACK	AUDIO OUT
K101	NQR0389-003X	FERRITE BEADS	
K102	NQR0389-003X	FERRITE BEADS	
K641	NQR0199-001X	FERRITE BEADS	
K642	NQR0199-001X	FERRITE BEADS	
LC101	NQR0431-001X	EMI FILTER	0.22uF 50V Z
TU001	QAU0276-001	TUNER	
W101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
X101	CE42546-001Z	X TAL	
Y004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y603	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

[AV-28X35HKE / AV-28H37HKE]
MAIN PW BOARD ASS'Y (SML-1902A-U2)

⚠Ref No.	Part No.	Part Name	Description Local
IC101	MSP3413G-QA-B3	IC	
IC201	CXA2089Q-X	IC	
IC501	BA10324AF-XE	IC	
IC601	BA4558F-X	IC	
IC651	AN5277	IC	
IC701	AT24LC-28X37HKE	IC	(SERVICE)
IC901	AN78L08-T	IC	
IC902	MM1565AF-X	IC	
Q002	2SD601A/QR/-X	TRANSISTOR	
Q101	UN2213-X	DIGI TRANSISTOR	
Q201	2SD601A/QR/-X	TRANSISTOR	
Q202	2SD601A/QR/-X	TRANSISTOR	
Q203	2SD601A/QR/-X	TRANSISTOR	
Q204	2SD601A/QR/-X	TRANSISTOR	
Q205	2SD601A/QR/-X	TRANSISTOR	
Q206	2SD601A/QR/-X	TRANSISTOR	
Q207	DTC323TK-X	DIGI TRANSISTOR	
Q208	2SD601A/QR/-X	TRANSISTOR	
Q209	2SD601A/QR/-X	TRANSISTOR	
Q210	2SB709A/QR/-X	TRANSISTOR	
Q211	DTC323TK-X	DIGI TRANSISTOR	
Q212	2SB709A/QR/-X	TRANSISTOR	
Q213	DTC323TK-X	DIGI TRANSISTOR	
Q214	DTC323TK-X	DIGI TRANSISTOR	
Q215	2SA933AS/QR/-T	TRANSISTOR	
Q216	2SD601A/QR/-X	TRANSISTOR	
Q217	2SC1740S/QR/-T	TRANSISTOR	
Q305	2SC1740S/QR/-T	TRANSISTOR	
Q501	2SD601A/QR/-X	TRANSISTOR	
Q502	2SD601A/QR/-X	TRANSISTOR	
Q503	2SD601A/QR/-X	TRANSISTOR	
Q504	2SD601A/QR/-X	TRANSISTOR	
Q621	2SB709A/QR/-X	TRANSISTOR	
Q622	2SB709A/QR/-X	TRANSISTOR	
Q623	UN2213-X	DIGI TRANSISTOR	
Q624	UN2213-X	DIGI TRANSISTOR	
Q625	UN2213-X	DIGI TRANSISTOR	
Q626	UN2213-X	DIGI TRANSISTOR	
Q627	2SD601A/QR/-X	TRANSISTOR	
Q628	UN2213-X	DIGI TRANSISTOR	
Q629	2SD601A/QR/-X	TRANSISTOR	
Q632	2SB709A/QR/-X	TRANSISTOR	
Q641	2SB709A/QR/-X	TRANSISTOR	
Q642	DTC323TK-X	DIGI TRANSISTOR	
Q643	DTC323TK-X	DIGI TRANSISTOR	
Q701	2SB709A/QR/-X	TRANSISTOR	
Q702	2SD601A/QR/-X	TRANSISTOR	
D201	MA3120/M/-X	Z DIODE	
D202	MA3120/M/-X	Z DIODE	
D203	MA3120/M/-X	Z DIODE	
D204	MA3120/M/-X	Z DIODE	

⚠Ref No.	Part No.	Part Name	Description Local
D205	MA3120/M/-X	Z DIODE	
D206	MA3120/M/-X	Z DIODE	
D207	MA3120/M/-X	Z DIODE	
D208	MA3120/M/-X	Z DIODE	
D209	MA3120/M/-X	Z DIODE	
D501	MA111-X	SI DIODE	
D502	MA111-X	SI DIODE	
D503	MA111-X	SI DIODE	
D504	MA111-X	SI DIODE	
D621	MA111-X	SI DIODE	
D622	MA111-X	SI DIODE	
D623	MA111-X	SI DIODE	
D624	MA111-X	SI DIODE	
D625	MA111-X	SI DIODE	
D626	MA111-X	SI DIODE	
D627	MA111-X	SI DIODE	
D628	MA111-X	SI DIODE	
D629	MA111-X	SI DIODE	
D630	MA111-X	SI DIODE	
D631	MA111-X	SI DIODE	
D633	MA111-X	SI DIODE	
D651	MA3330/L/-X	Z DIODE	
D652	MA3330/L/-X	Z DIODE	
D653	MA3330/L/-X	Z DIODE	
D701	MA3056/M/-X	Z DIODE	
D702	MA3056/M/-X	Z DIODE	
D703	MA3056/M/-X	Z DIODE	
D704	MA3056/M/-X	Z DIODE	
D705	MA111-X	SI DIODE	
D981	MA111-X	SI DIODE	
D982	MA111-X	SI DIODE	
C001	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C007	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C009	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C102	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C104	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C105	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C117	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C119	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C120	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C124	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C125	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C126	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C127	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C128	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C130	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C131	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C201	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C202	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C204	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C205	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C206	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C207	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C209	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C210	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C211	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C212	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C215	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C216	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C219	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C220	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C225	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C226	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C227	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C228	NCB31HK-103X	C CAPACITOR	0.01uF 50V K

⚠Ref No.	Part No.	Part Name	Description Local
C229	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C230	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
C231	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
C232	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C233	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C234	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C235	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C236	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C237	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C238	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C239	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C303	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C308	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C309	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C310	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C503	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C508	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C510	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
C511	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C513	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C551	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C552	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C553	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C554	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C555	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C601	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C602	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C603	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C604	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C605	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C606	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C607	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C608	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C609	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C610	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C611	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C623	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C641	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C642	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C650	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C651	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C652	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C654	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C657	QETM1VM-228	E CAPACITOR	2200uF 35V M
C663	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C664	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C665	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C666	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C701	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C901	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C904	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C905	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C906	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C907	NDC31HJ-471X	C CAPACITOR	470pF 50V J
R002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R006	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R203	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R204	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R210	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R212	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R213	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R215	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description	Local
R216	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R218	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R219	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R220	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R221	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R222	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R223	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R224	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R225	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R226	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R227	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R229	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R230	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R231	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R232	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R233	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R234	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R235	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R236	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R237	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R239	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R240	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R243	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R245	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R246	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R247	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R248	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R249	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R250	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R251	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R252	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R253	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R255	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R256	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R257	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R258	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R259	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R260	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R261	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R262	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R263	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R265	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R267	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R268	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R271	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R272	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R273	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R274	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R275	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R276	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R277	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R279	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R280	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R281	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R282	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R283	QRG01GJ-101	OMF RESISTOR	100Ω 1W J	
R284	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J	
R285	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R286	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R287	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J	
R288	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R289	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R290	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R291	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R311	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J	
R312	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R313	QRK126J-391X	UNF C RESISTOR	390Ω 1/2W J	
R314	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R315	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R501	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R502	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R503	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R504	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R505	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R506	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R507	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R513	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R514	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R515	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R516	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R517	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R518	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R519	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R521	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R522	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R523	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R524	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R525	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R526	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R527	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R528	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R529	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R530	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R532	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R533	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R534	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R535	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R536	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R537	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R538	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R539	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R551	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R552	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R553	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R554	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R555	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R556	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R557	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R558	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R559	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R560	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R601	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R602	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R603	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R604	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R605	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R606	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R607	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R608	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R609	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R610	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R611	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R612	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R613	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R621	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R622	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R623	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R624	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R626	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R627	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R628	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R630	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R631	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R632	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R635	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R637	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R638	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R641	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R642	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R643	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R644	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R645	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R651	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R652	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R654	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R655	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R657	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R661	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R702	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R703	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R704	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

⚠Ref No.	Part No.	Part Name	Description Local
R707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R709	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R710	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
L001	QQL244K-270Z	COIL	27uH K
L002	QQL244K-100Z	COIL	10uH K
L003	QQL244K-100Z	COIL	10uH K
L101	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
L102	QQL244K-4R7Z	COIL	4.7uH K
CN001	QGB1505J1-35	CONNECTOR	B-B (1-35)
CN002	QGC2507C1-96	CONNECTOR	(1-96)
CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN004	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN005	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN00B	QJK002-042214	SIN CR C-B WIRE	
CN00F	QGA2501C1-12	CONNECTOR	W-B (1-12)
CN00K	QGA2501C5-05Z	CONNECTOR	W-B (1-5)
CN00R	QGA2501C1-10	CONNECTOR	W-B (1-10)
CN0C1	QGA2501F1-06	CONNECTOR	W-B (1-6)
CN0SL	QGA2501C5-04Z	CONNECTOR	W-B (1-4)
CN0SR	QGA2501C5-03Z	CONNECTOR	W-B (1-3)
HS651	LC30145-003A	HEAT SINK/AL-F/	
J001	QNN0296-001	PIN JACK	AUDIO OUT
K101	NQR0389-003X	FERRITE BEADS	
K102	NQR0389-003X	FERRITE BEADS	
K641	NQR0199-001X	FERRITE BEADS	
K642	NQR0199-001X	FERRITE BEADS	
LC101	NQR0431-001X	EMI FILTER	0.22uF 50V Z
TU001	QAU0277-001	TUNER	
W101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
X101	CE42546-001Z	X TAL	
Y001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y603	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

POWER & DEF PW BOARD ASS'Y (SML-2002A-U2)

⚠Ref No.	Part No.	Part Name	Description Local
IC401	LA78041	IC	
IC461	BA10393	IC	
IC901	STR-F6267S-F7	IC	
⚠IC941	QAL0425-001	POWER TRANSF	
IC951	SE140N	IC	
IC961	L7812CP	IC	
IC962	L7809CP	IC	
Q461	2SK2459N-F54	POWER MOS FET	
Q462	KTC3199/YG/-T	TRANSISTOR	
Q463	KTC3199/YG/-T	TRANSISTOR	
Q464	KTA1267/YG/-T	TRANSISTOR	
Q481	DTC124ESA-T	DIGI TRANSISTOR	
Q482	KTC3199/YG/-T	TRANSISTOR	
Q501	BSN304-T	MOS FET	
⚠Q521	2SC5857-LB	POW TRANSISTOR	
Q581	2SA1208/ST/Z1-T	TRANSISTOR	
Q582	DTC144ESA-T	DIGI TRANSISTOR	
Q583	KTC3199/YG/-T	TRANSISTOR	
Q941	KTC3199/YG/-T	TRANSISTOR	
Q942	KTC3199/YG/-T	TRANSISTOR	
D402	1SR35-400A-T2	SI DIODE	
D461	RGP10J-5025-T3	SI DIODE	
D462	1SS133-T2	SI DIODE	
D463	1SS133-T2	SI DIODE	
D481	1SS133-T2	SI DIODE	
D501	1SS81-T5	SI DIODE	
D521	V11CA-C1	SI DIODE	
D522	FMV-3FU-F1	SI DIODE	
D523	MTZJ22B-T2	Z DIODE	
D525	RGP10J-5025-T3	SI DIODE	
D541	RGP10J-5025-T3	SI DIODE	
D542	MTZJ3.9B-T2	Z DIODE	
D551	RGP10J-5025-T3	SI DIODE	
D552	RGP10J-5025-T3	SI DIODE	
D553	RH1S-T3	SI DIODE	
D582	MTZJ7.5B-T2	Z DIODE	
D583	MTZJ7.5S-T2	Z DIODE	
D584	RGP10J-5025-T3	SI DIODE	
D901	D3SB60	BRIDGE DIODE	
D902	RG1C-LFA1	SI DIODE	
D904	EU2-T2	FR DIODE	
D905	1SS133-T2	SI DIODE	
D906	MTZJ27B-T2	Z DIODE	
D907	1SS133-T2	SI DIODE	
D910	MTZJ15B-T2	Z DIODE	
D911	MTZJ15B-T2	Z DIODE	
D931	S1WB/A/60-4101	BRIDGE DIODE	
D941	1SR124-400A-T2	SI DIODE	
D945	1SS133-T2	SI DIODE	
D951	RU4AM-LFT2	SI DIODE	
D952	RU4AM-LFT2	SI DIODE	
D953	RGP10J-5025-T3	SI DIODE	
D954	FMX-G12S	SI DIODE	
D956	FMX-G12S	SI DIODE	
D958	MTZJ33B-T2	Z DIODE	
D959	1SS133-T2	SI DIODE	
D981	1SS133-T2	SI DIODE	
D982	1SS133-T2	SI DIODE	
D983	1SS133-T2	SI DIODE	
⚠PC901	PC123Y22	PHOTO COUPLER	
C404	QCZ0120-104Z	C CAPACITOR	0.1uF 25V Z
C405	QDC31HJ-820Z	C CAPACITOR	82pF 50V J
C406	QETM1VM-108	E CAPACITOR	1000uF 35V M
C408	QETN1VM-337Z	E CAPACITOR	330uF 35V M
C409	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J
C410	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J
C411	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J
C414	QCB31HK-682Z	C CAPACITOR	6800pF 50V K
C461	QEZ0414-226	BP E CAPACITOR	22uF 50V M
C462	QFM72DJ-152Z	M CAPACITOR	1500pF 200V J
C463	QFM72DJ-122Z	M CAPACITOR	1200pF 200V J
C464	QCZ0120-104Z	C CAPACITOR	0.1uF 25V Z
C465	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C466	QFP31HJ-272Z	PP CAPACITOR	2700pF 50V J
C467	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J
C468	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C470	QCS31HJ-470Z	C CAPACITOR	47pF 50V J
C471	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J
C481	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C501	QCB32HK-331Z	C CAPACITOR	330pF 500V K
C502	QFM72DK-103	M CAPACITOR	0.01uF 200V K
C503	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J
C521	QFZ0122-112	MPP CAPACITOR	1100pF 1.8kV H
C522	QFZ0200-113	MPP CAPACITOR	0.011uF 1.5kV H
C523	QFM72DK-393	M CAPACITOR	0.039uF 200V K
C524	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J
C526	QFZ0197-184	MPP CAPACITOR	0.18uF 250V J
C527	QFZ0197-124	MPP CAPACITOR	0.12uF 250V J
C529	QFZ0197-154	MPP CAPACITOR	0.15uF 250V J
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C531	QFZ0194-534	MPP CAPACITOR	0.53uF 250V J
C532	QETM2CM-227	E CAPACITOR	220uF 160V M
C533	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M
C541	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C551	QCB32HK-152Z	C CAPACITOR	1500pF 500V K
C552	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C553	QCB32HK-152Z	C CAPACITOR	1500pF 500V K
C554	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C555	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
C556	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C558	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C581	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C582	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C583	QETN2AM-106Z	E CAPACITOR	10uF 100V M
C584	QETN1AM-227Z	E CAPACITOR	220uF 10V M
⚠C901	QFZ9075-473	MPP CAPACITOR	0.047uF AC275V M
⚠C902	QFZ9075-104	MPP CAPACITOR	0.1uF AC275V M
⚠C903	QFZ9075-473	MPP CAPACITOR	0.047uF AC275V M
⚠C904	QCZ9054-472	C CAPACITOR	4700pF AC250V Z
⚠C905	QCZ9054-472	C CAPACITOR	4700pF AC250V Z
⚠C906	QCZ9054-472	C CAPACITOR	4700pF AC250V Z
C907	QEZ0199-227	E CAPACITOR	220uF 250V J
C908	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C909	QCZ0340-391	C CAPACITOR	390pF 2kV K
C910	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C911	QCB31HK-102Z	C CAPACITOR	1000pF 50V K
C912	QCZ0340-561	C CAPACITOR	560pF 2kV K
C914	QCB31HK-221Z	C CAPACITOR	220pF 50V K
C915	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J
C916	QCB32HK-152Z	C CAPACITOR	1500pF 500V K

⚠Ref No.	Part No.	Part Name	Description	Local
⚠C931	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
⚠C932	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
⚠C933	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
C934	QETM2GM-226	E CAPACITOR	22uF 400V M	
C941	QTMN1CM-477Z	E CAPACITOR	470uF 16V M	
C942	QETN1AM-337Z	E CAPACITOR	330uF 10V M	
C951	QEZ0203-227	E CAPACITOR	220uF 160V M	
C952	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
C953	QEHR1CM-227Z	E CAPACITOR	220uF 16V M	
C954	QETM1VM-228	E CAPACITOR	2200uF 35V M	
C956	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	
C957	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C959	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	
C960	QCZ0325-821	C CAPACITOR	820pF 2kV K	
⚠C991	QCZ9079-222	C CAPACITOR	2200pF AC250V M	
⚠C993	QCZ9079-471	C CAPACITOR	470pF AC250V K	
R401	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	
R402	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	
R403	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R404	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J	
R405	QRL029J-151	OMF RESISTOR	150Ω 2W J	
R406	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R407	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J	
R408	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J	
R409	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R410	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R461	QRG029J-820	OMF RESISTOR	82Ω 2W J	
R462	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R463	QRA14CF-9101Y	CMF RESISTOR	9.1kΩ 1/4W F	
R464	QRX01GJ-2R7	MF RESISTOR	2.7Ω 1W J	
R468	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R469	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	
R471	QRE141J-391Y	C RESISTOR	390Ω 1/4W J	
R472	QRA14CF-1002Y	CMF RESISTOR	10kΩ 1/4W F	
R473	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R474	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R475	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R476	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R477	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R478	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
R481	QRE141J-274Y	C RESISTOR	270kΩ 1/4W J	
R482	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R501	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R502	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
R503	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	
R504	QRL039J-272	OMF RESISTOR	2.7kΩ 3W J	
R505	QRL039J-332	OMF RESISTOR	3.3kΩ 3W J	
R506	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J	
R521	QRE121J-471Y	C RESISTOR	470Ω 1/2W J	
R522	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R523	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R524	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K	
R525	QRL039J-103	OMF RESISTOR	10kΩ 3W J	
R541	QRE141J-182Y	C RESISTOR	1.8kΩ 1/4W J	
R542	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R543	QRE121J-272Y	C RESISTOR	2.7kΩ 1/2W J	
⚠R551	QRZ9022-R47	FUSI RESISTOR	0.47Ω 1W K	
⚠R552	QRZ9022-R47	FUSI RESISTOR	0.47Ω 1W K	
R581	QRF154K-4R7	UNF WW RESISTOR	4.7Ω 15W K	
R582	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R583	QRE121J-682Y	C RESISTOR	6.8kΩ 1/2W J	
R584	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J	
R585	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R586	QRA14CF-7501Y	CMF RESISTOR	7.5kΩ 1/4W F	
R587	QRA14CF-2101Y	CMF RESISTOR	2.1kΩ 1/4W F	
R588	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
⚠R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J	
R901	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R902	QRF054K-3R3	UNF WW RESISTOR	3.3Ω 5W K	
R903	QRF104K-3R9	UNF WW RESISTOR	3.9Ω 10W K	
R904	QRL039J-683	OMF RESISTOR	68kΩ 3W J	
R905	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J	
R906	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J	
R908	QRL039J-823	OMF RESISTOR	82kΩ 3W J	
R909	QRL039J-823	OMF RESISTOR	82kΩ 3W J	
R910	QRE121J-100Y	C RESISTOR	10Ω 1/2W J	
R911	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J	
R914	QRM059J-R10	MP RESISTOR	0.1Ω 5W J	
R915	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	
R916	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	
R941	QRE141J-1R0Y	C RESISTOR	1Ω 1/4W J	
R942	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J	
R943	QRE141J-1R8Y	C RESISTOR	1.8Ω 1/4W J	
R944	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R945	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R946	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R951	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J	
R952	QRL039J-223	OMF RESISTOR	22kΩ 3W J	
R981	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J	
R982	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K	
L461	QQR1195-001	CHOKE COIL		
L462	QQLZ028-272	COIL	2.7mH	
L521	QQLZ031-180	COIL	18uH	
L522	QQR1191-002	LINEARITY COIL		
L551	QQLZ026-540	COIL	54uH ±7%	
L901	QQL401K-100Z	COIL	10uH K	
L902	QQL401K-100Z	COIL	10uH K	
L903	QQR1200-001	CHOKE COIL		
L941	QQL26AM-4R7Z	COIL	4.7uH M	
L942	QQL26AK-220Z	COIL	22uH K	
L951	QQLZ026-460	COIL	46uH ±7%	
T501	QQR1111-001	DRIVE TRANSF		
⚠T901	QQS0195-001	SW TRANSF		
CN003	QGB1506M1-16	CONNECTOR	B-B (1-16)	
CN004	QGB1506M1-16	CONNECTOR	B-B (1-16)	
CN005	QGB1506M1-16	CONNECTOR	B-B (1-16)	
CN00G	QGA2501C5-06Z	CONNECTOR	W-B (1-6)	
CN00W	QGA7901C1-02	CONNECTOR	W-B (1-2)	
CN00X	QGA2501C5-05Z	CONNECTOR	W-B (1-5)	
CN0HV	CHC802T-05N-J	LV CONNECTOR		
⚠CP951	ICP-N75-Y	IC PROTECTOR	2.7A	
⚠CP952	ICP-N75-Y	IC PROTECTOR	2.7A	
⚠CP954	QMFZ034-4R0Z-J1	FUSE	4A 125V	
HS401	LC30416-002A	HEAT SINK/AL-F/		
HS461	CEHT11B-002QS	HEAT SINK		
HS521	LC31212-001B	HEAT SINK/AL-F/		
HS522	CEHT11B-006QS	HEAT SINK		
HS901	LC30774-001A	HEAT SINK/AL-F/		
HS954	CEHT11B-002QS	HEAT SINK		
HS956	CEHT11B-002QS	HEAT SINK		
K401	QQR0621-002Z	FERRITE BEADS		
K522	CE41832-001	LEAD CORE		
K523	CE41832-001	LEAD CORE		
K524	CE41832-001	LEAD CORE		
K901	QQR0679-001	FERRITE BEADS		
⚠LF901	QQR1095-001	LINE FILTER		
⚠RY941	QSK0099-001	RELAY		
TH901	QAD0133-9R0	P THERMISTOR	9Ω 220V/240V	

CRT SOCKET PW BOARD ASS'Y (SML-3002A-U2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC3201	TDA6111Q	IC		
IC3202	TDA6111Q	IC		
IC3203	TDA6111Q	IC		
Q3104	2SD601A/QR/-X	TRANSISTOR		
Q3105	2SC1627A/OY/-T	TRANSISTOR		
Q3108	2SA1837	POW TRANSISTOR		
Q3109	2SC4793	POW TRANSISTOR		
Q3301	2SB709A/QR/-X	TRANSISTOR		
Q3303	2SB709A/QR/-X	TRANSISTOR		
Q3304	2SD601A/QR/-X	TRANSISTOR		
D3102	MA111-X	SI DIODE		
D3103	RH1S-T3	SI DIODE		
D3104	RH1S-T3	SI DIODE		
D3201	EU01N-T2	SI DIODE		
D3202	EU01N-T2	SI DIODE		
D3203	EU01N-T2	SI DIODE		
D3204	RM2C-LFA1	SI DIODE		
D3205	1SR124-400A-T2	SI DIODE		
D3206	1SR124-400A-T2	SI DIODE		
D3207	1SR124-400A-T2	SI DIODE		
D3208	MA3062/M/-X	Z DIODE		
D3209	MA3130/H/-X	Z DIODE		
D3210	MA3130/H/-X	Z DIODE		
D3301	MA111-X	SI DIODE		
D3302	MA111-X	SI DIODE		
D3303	MA111-X	SI DIODE		
D3306	MA3036-X	Z DIODE		
C3106	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	
C3107	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C3110	QETN2CM-106Z	E CAPACITOR	10uF 160V M	

⚠Ref No.	Part No.	Part Name	Description	Local
C3111	QCB32HK-472Z	C CAPACITOR	4700pF 500V K	
C3113	QETN2CM-106Z	E CAPACITOR	10uF 160V M	
C3114	QCB32HK-472Z	C CAPACITOR	4700pF 500V K	
C3116	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C3117	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C3118	QETN1AM-337Z	E CAPACITOR	330uF 10V M	
C3120	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C3201	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C3202	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C3203	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C3204	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3205	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3206	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3207	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3208	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3209	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3210	QFK62EK-104Z	MM CAPACITOR	0.1uF 250V K	
C3211	QFK62EK-104Z	MM CAPACITOR	0.1uF 250V K	
C3212	QFK62EK-104Z	MM CAPACITOR	0.1uF 250V K	
C3213	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C3214	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C3215	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C3216	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C3218	QETM2EM-336	E CAPACITOR	33uF 250V M	
C3219	QFZ0097-223	MM CAPACITOR	0.022uF 1.25KV M	
C3221	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C3222	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C3223	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C3224	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C3301	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C3302	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
R3103	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3109	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3112	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3114	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3115	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R3116	QRG01GJ-101	OMF RESISTOR	100Ω 1W J	
R3117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3122	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R3123	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J	
R3124	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3125	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J	
R3126	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3127	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R3128	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R3129	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J	
R3130	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J	
R3131	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R3132	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R3133	QRL029J-681	OMF RESISTOR	680Ω 2W J	
⚠R3134	QRZ9021-561	FUSI RESISTOR	560Ω 1W J	
R3201	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3202	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3203	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3208	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R3209	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3218	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3219	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3220	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3222	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3223	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3224	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J	
R3225	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J	
R3226	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J	
R3227	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3228	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3229	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3230	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K	
R3231	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K	
R3232	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K	
R3234	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K	
R3235	QRC121K-102Z	COMP RESISTOR	1kΩ 1/2W K	
R3236	QRZ0107-105Z	C RESISTOR	1MΩ 1/2W K	
R3237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3239	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3240	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3241	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3242	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3301	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J	
R3302	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J	
R3303	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3304	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3305	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3306	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R3308	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3310	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3311	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3312	NRSA63J-120X	MG RESISTOR	12Ω 1/16W J	
R3313	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
L3204	QQL26AJ-102Z	COIL	1mH J	
CN300G	QJK002-063631	SIN CR C-B WIRE		
CN300R	CHGY0146-0A	CONNECTOR ASSY		
CN30E1	CE41507-001P	LV CONNECTOR		
CN30SC	QGZ0017C1-01Z	CONNECTOR		(1-1)
CN30VM	QGA2501C5-03Z	CONNECTOR		W-B (1-3)
HS3101	CEHP00N-001QS	HEAT SINK		
HS3102	CEHP00N-001QS	HEAT SINK		
HS3201	LC31150-002A	HEAT SINK/AL-F/		
HS3202	LC31150-002A	HEAT SINK/AL-F/		
HS3203	LC31150-002A	HEAT SINK/AL-F/		
K3101	CE41492-001Z	CHOKE COIL		
K3103	CE41492-001Z	CHOKE COIL		
K3104	CE41492-001Z	CHOKE COIL		
K3105	QQR0621-002Z	FERRITE BEADS		
K3201	QQR0679-001	FERRITE BEADS		
K3202	QQR0679-001	FERRITE BEADS		
SG3201	QAF0056-501Z	SURGE ABSORBER		500V M
SG3202	QAF0056-501Z	SURGE ABSORBER		500V M
SG3203	QAF0056-501Z	SURGE ABSORBER		500V M
⚠SK3001	QNZ0536-001	CRT SOCKET		
Y3101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

FRONT CONTROL PW BOARD ASS'Y (SML-8001A-U2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC8851	GP1UM281QK	IR DETECT UNIT	38kHz	
Q8801	UN2112-X	DIGI TRANSISTOR		
Q8802	UN2112-X	DIGI TRANSISTOR		
Q8803	UN2212-X	DIGI TRANSISTOR		
D8801	SPR-39MVWF	LED	RED-GREEN	
D8851	MA3068/M/-X	Z DIODE		
C8851	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8852	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
⚠C8901	QFZ9072-474	MM CAPACITOR	0.47uF AC250V K	
R8801	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R8802	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R8804	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8851	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
CN800B	QGA2501C5-04Z	CONNECTOR		W-B (1-4)
CN800W	WJK0050-002A	E-SI C WIRE C-B		
CN80PW	QGAB801C1-02	CONNECTOR		W-B (1-2)
⚠F8901	QMF51D2-3R15J1	FUSE	3.15A AC250V	
FC8901	CEMG002-001Z	FUSE CLIP		
FC8902	CEMG002-001Z	FUSE CLIP		
⚠LF8901	QQR1095-001	LINE FILTER		
⚠S8901	QSW0824-001	PUSH SWITCH	POWER	
W8001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

SIDE CONTROL PW BOARD ASS'Y (SML-8101A-U2)

⚠Ref No.	Part No.	Part Name	Description	Local
C8001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C8002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C8003	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C8004	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C8310	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8311	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R8001	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	
R8002	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	
R8021	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8022	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
L8001	QQR0716-001Z	FERRITE BEADS		

⚠Ref No.	Part No.	Part Name	Description Local
L8002	QQL244K-5R6Z	COIL	5.6uH K
L8003	QQL244K-5R6Z	COIL	5.6uH K
L8310	QQL244K-270Z	COIL	27uH K
L8311	QQL244K-270Z	COIL	27uH K
L8312	QQR0716-001Z	FERRITE BEADS	
CN800F	QGA2501C1-12	CONNECTOR	W-B (1-12)
CN800K	QGA2501C5-05Z	CONNECTOR	W-B (1-5)
J8001	QMS3001-C01	3.5 JACK	HEADPHONE
J8303	QNZ0438-001	AV JACK	V-IN
S8001	QSW0619-003Z	TACT SWITCH	CH DOWN
S8002	QSW0619-003Z	TACT SWITCH	MENU
S8003	QSW0619-003Z	TACT SWITCH	CH UP

AV JACK PW BOARD ASS'Y (SML0J001A-U2)

⚠Ref No.	Part No.	Part Name	Description Local
D0101	MA3056/M/-X	Z DIODE	
D0102	MA3056/M/-X	Z DIODE	
D0103	MA3056/M/-X	Z DIODE	
D0104	MA3056/M/-X	Z DIODE	
D0115	MA3056/M/-X	Z DIODE	
D0116	MA3056/M/-X	Z DIODE	
D0117	MA3056/M/-X	Z DIODE	
D0118	MA3056/M/-X	Z DIODE	
D0119	MA3056/M/-X	Z DIODE	
C0101	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C0102	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C0103	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C0104	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C0105	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C0106	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C0107	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C0108	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C0109	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C0110	NCB31HK-472X	C CAPACITOR	4700pF 50V K
R0101	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R0102	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R0103	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R0104	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R0105	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R0106	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R0107	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R0108	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R0109	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R0203	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R0204	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R0205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
CN0001	QGB1505K1-35	CONNECTOR	B-B (1-35)
J0001	QNZ0465-001	21P CONNECTOR	EXT-2
J0002	QNZ0463-001	21P CONNECTOR	EXT-1
W0101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W0102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W0103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W0104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

100Hz PW BOARD ASS'Y (SML0Z002A-U2)

⚠Ref No.	Part No.	Part Name	Description Local
IC001	SDA6000-B12	IC	
IC002	S-80828CNNB-W	IC	
IC003	K4S641632F-TC75	IC(DIGITAL)	
IC004	MBV160T90PT	IC(MICRO C ROM)	
IC191	PQ2L3252MS-X	IC	
IC201	VSP9415B-VK-C1	IC	
IC301	DDP3315C-QA-D2	IC	
IC901	R1170H181B-X	IC	
IC902	MM1563DF-X	IC	
IC903	MM1565AF-X	IC	
Q013	2SK1830-X	MOS FET	
Q014	2SK1830-X	MOS FET	
Q101	2SD601A/QR/-X	TRANSISTOR	
Q201	2SB709A/QR/-X	TRANSISTOR	
Q202	2SB709A/QR/-X	TRANSISTOR	
Q203	2SB709A/QR/-X	TRANSISTOR	
Q301	2SB709A/QR/-X	TRANSISTOR	
Q302	2SD601A/QR/-X	TRANSISTOR	
Q304	2SC4672/PQ/-W	TRANSISTOR	
Q305	2SB709A/QR/-X	TRANSISTOR	
Q306	2SB709A/QR/-X	TRANSISTOR	
Q307	2SB709A/QR/-X	TRANSISTOR	
QA001	UMX1N-W	PAIR TRANSISTOR	
QA002	UMX1N-W	PAIR TRANSISTOR	
QA003	UMX1N-W	PAIR TRANSISTOR	
QA004	UMT1N-W	PAIR TRANSISTOR	
QA301	UMX1N-W	PAIR TRANSISTOR	
QA302	UMT1N-W	PAIR TRANSISTOR	
D001	MA111-X	SI DIODE	
D002	MA111-X	SI DIODE	
D003	MA3068/M/-X	Z DIODE	
D005	RSA6.1J4-W	SI DIODE	
D301	DA221-X	DIODE ARRAY	
D302	DA221-X	DIODE ARRAY	
D303	DA221-X	DIODE ARRAY	
D304	DA221-X	DIODE ARRAY	
D305	MA111-X	SI DIODE	
D306	DA221-X	DIODE ARRAY	
C001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C019	NEH71CM-476X	E CAPACITOR	47uF 16V M
C020	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C021	NEH71CM-476X	E CAPACITOR	47uF 16V M
C022	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C023	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
C024	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C025	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
C026	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C027	NEH71CM-476X	E CAPACITOR	47uF 16V M
C028	NEH71CM-476X	E CAPACITOR	47uF 16V M
C029	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C030	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C031	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C032	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C035	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C036	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C038	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C039	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C040	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C041	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C043	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C046	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C047	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C048	NEH71CM-476X	E CAPACITOR	47uF 16V M
C049	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C050	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C051	NEH71CM-476X	E CAPACITOR	47uF 16V M
C052	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C053	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C054	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C055	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C056	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C057	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C059	NEH71CM-106X	E CAPACITOR	10uF 16V M
C060	NEH71CM-106X	E CAPACITOR	10uF 16V M
C061	NEH71CM-106X	E CAPACITOR	10uF 16V M
C062	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C066	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C067	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C191	NEH71CM-476X	E CAPACITOR	47uF 16V M
C192	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C193	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C194	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C195	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C196	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C197	NEH70GM-227X	E CAPACITOR	220uF 4V M
C201	NDC31HJ-331X	C CAPACITOR	330pF 50V J
C202	NDC31HJ-331X	C CAPACITOR	330pF 50V J
C203	NDC31HJ-331X	C CAPACITOR	330pF 50V J
C204	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C205	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C206	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C207	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C208	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C209	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C210	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C211	NCB31HK-473X	C CAPACITOR	0.047uF 50V K

⚠Ref No.	Part No.	Part Name	Description Local
C212	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C214	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C215	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C219	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C220	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C221	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C222	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C225	NDC31HJ-220X	C CAPACITOR	22pF 50V J
C226	NDC31HJ-220X	C CAPACITOR	22pF 50V J
C227	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C228	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C229	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C230	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C231	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C301	NEH71HM-105X	E CAPACITOR	1uF 50V M
C303	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C304	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C305	NEH71HM-105X	E CAPACITOR	1uF 50V M
C306	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C307	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C308	NEH71HM-105X	E CAPACITOR	1uF 50V M
C309	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C311	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C312	NCB31HK-562X	C CAPACITOR	5600pF 50V K
C313	NCB31HK-333X	C CAPACITOR	0.033uF 50V K
C314	NCB31HK-333X	C CAPACITOR	0.033uF 50V K
C315	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C319	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C320	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C321	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C322	NEH71HM-335X	E CAPACITOR	3.3uF 50V M
C323	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C324	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C325	NEH71HM-105X	E CAPACITOR	1uF 50V M
C329	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C330	NEH71CM-106X	E CAPACITOR	10uF 16V M
C331	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C332	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C333	NEH71CM-106X	E CAPACITOR	10uF 16V M
C334	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C335	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C336	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C901	NEH71CM-106X	E CAPACITOR	10uF 16V M
C902	NEH71CM-106X	E CAPACITOR	10uF 16V M
C903	NEH71CM-106X	E CAPACITOR	10uF 16V M
C904	NEH71CM-106X	E CAPACITOR	10uF 16V M
C905	NEH71CM-106X	E CAPACITOR	10uF 16V M
C906	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C907	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C908	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C909	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C910	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C911	NEH71CM-106X	E CAPACITOR	10uF 16V M
C912	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C913	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C914	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C915	NEH71CM-106X	E CAPACITOR	10uF 16V M
C916	NEH71CM-106X	E CAPACITOR	10uF 16V M
C917	NEH71CM-106X	E CAPACITOR	10uF 16V M
C918	NEH71CM-106X	E CAPACITOR	10uF 16V M
R001	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R002	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R005	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R006	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R007	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R008	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R009	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R010	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R011	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R012	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R013	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R014	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R015	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R016	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R017	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R018	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R019	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R022	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R024	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R027	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R030	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R032	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R034	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R035	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R036	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R037	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R038	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R042	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R043	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R044	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R054	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R058	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R059	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R060	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R087	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R089	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R090	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R095	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R096	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R097	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R098	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R110	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R111	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R112	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R113	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R114	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R115	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R116	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R124	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R125	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R126	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R127	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R128	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R129	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R130	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R131	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R132	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R133	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R134	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R135	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R136	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R137	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R138	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R139	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R147	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R151	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R152	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R153	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R154	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R155	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R156	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R158	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R165	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R166	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R167	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R169	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R170	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R171	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R172	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R173	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R174	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R177	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R201	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R202	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R203	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R204	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R205	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R206	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R207	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R210	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R211	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R212	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R213	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R215	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R216	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R217	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R301	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R303	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description	Local
R306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R310	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R311	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R314	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R318	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R319	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R320	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R321	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R322	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R323	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R324	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R325	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R327	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R328	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R329	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R330	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R331	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R332	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R333	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R334	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R336	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R337	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R338	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R339	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R341	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R342	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R343	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R344	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R345	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R346	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R347	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R348	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R349	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R350	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R351	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R352	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R353	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R354	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R355	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R356	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R357	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R358	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
RA001	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA002	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA003	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA004	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA005	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA006	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA007	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA008	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
L001	NQL092K-4R7X	P COIL	4.7uH K	
L003	NQL092K-4R7X	P COIL	4.7uH K	
L005	NQL092K-4R7X	P COIL	4.7uH K	
L006	NQL092K-4R7X	P COIL	4.7uH K	
L007	NQL092K-4R7X	P COIL	4.7uH K	
L008	NQL092K-4R7X	P COIL	4.7uH K	
L009	NQL034K-4R7X	COIL	4.7uH K	
L010	NQL092K-4R7X	P COIL	4.7uH K	
L011	NQL092K-4R7X	P COIL	4.7uH K	
L012	NQL092K-4R7X	P COIL	4.7uH K	
L013	NQL092K-4R7X	P COIL	4.7uH K	
L014	NQL092K-4R7X	P COIL	4.7uH K	
L015	NQL034K-4R7X	COIL	4.7uH K	
L016	NQL034K-4R7X	COIL	4.7uH K	
L020	NQL092K-1R5X	P COIL	1.5uH K	
L021	NQL092K-1R5X	P COIL	1.5uH K	
L201	NQL092K-3R3X	P COIL	3.3uH K	
L202	NQL092K-3R3X	P COIL	3.3uH K	
L203	NQL092K-3R3X	P COIL	3.3uH K	
L301	NQL034K-100X	P COIL	10uH K	
L901	NQL034K-100X	P COIL	10uH K	
L902	NQL034K-100X	P COIL	10uH K	
L903	NQL034K-100X	P COIL	10uH K	
L904	NQL034K-100X	P COIL	10uH K	
K001	NQR0389-003X	FERRITE BEADS		
K002	NQR0389-003X	FERRITE BEADS		
K003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
LC001	NQR0415-003X	EMI FILTER	0.47uF 16V M	
LC002	NQR0415-003X	EMI FILTER	0.47uF 16V M	
Y304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
Y305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
Y901	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
Y902	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
Y903	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
Y904	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

[AV-28H35BUE]
REMOTE CONTROL UNIT PARTS LIST (RM-C50-1C)

⚠Ref No.	Part No.	Part Name	Description	Local
	2AA030650	BATTERY COVER		
	2AA027761	SLIDE COVER		

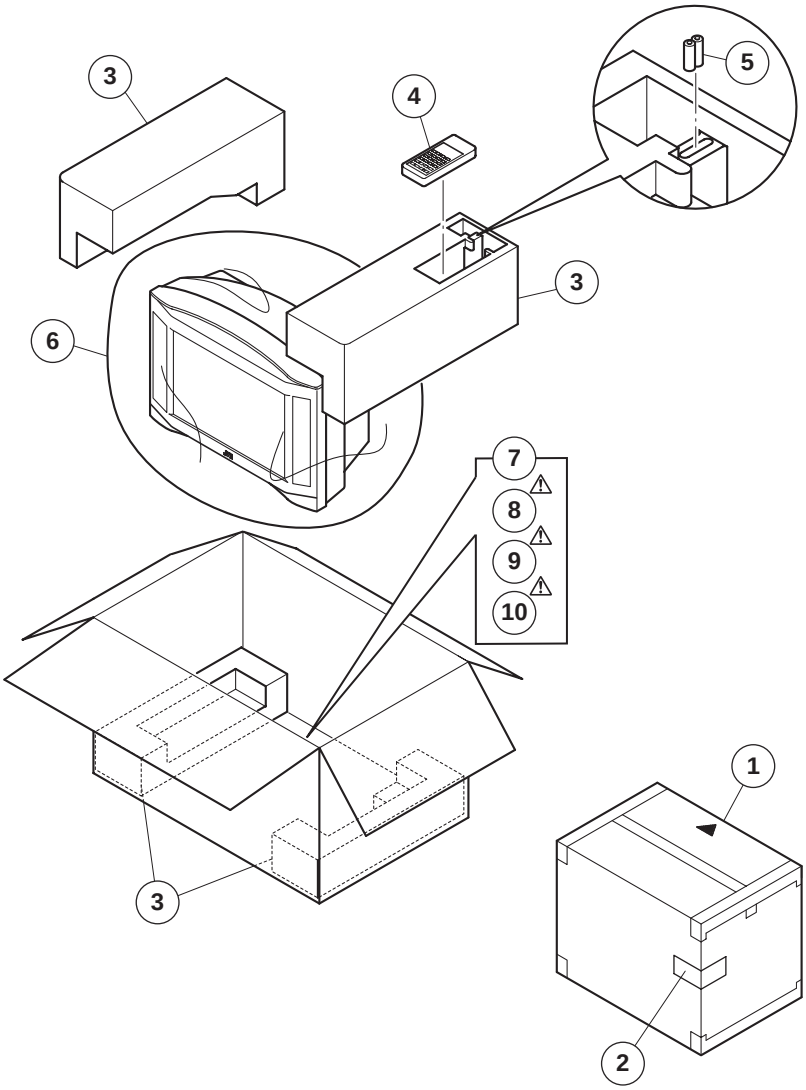
[AV-28X37SUE / AV-28H35SUE / AV-28X35HUE]
REMOTE CONTROL UNIT PARTS LIST (RM-C54H-1C)

⚠Ref No.	Part No.	Part Name	Description	Local
	2AA030650	BATTERY COVER		
	2AA030641	SLIDE COVER		

[AV-28X37HKE]
REMOTE CONTROL UNIT PARTS LIST (RM-C55H-1C)

⚠Ref No.	Part No.	Part Name	Description	Local
	2AA030650	BATTERY COVER		
	2AA030642	SLIDE COVER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	AEM1002-B76-E	PACKING CASE		
	2	AEM1064-058-E	EURO LABEL		H35BUE
	2	AEM1064-051-E	EURO LABEL		X35HKE
	2	AEM1064-057-E	EURO LABEL		X35HUE
	2	AEM1064-053-E	EURO LABEL		X37HIE
	2	AEM1064-003-E	EURO LABEL		H35SUE / X37HKE / X37SUE
	3	LC11318-003G-U	CUSHION ASSY	4pcs in 1set	H35BUE / X35HUE
	3	LC11318-003D-U	CUSHION ASSY	4pcs in 1set	H35SUE / X35HKE / X37HIE / X37HKE / X37SUE
	4	RM-C50-1C	RC HAND UNIT		H35BUE
	4	RM-C55H-1C	RC HAND UNIT		X35HKE / X37HIE / X37HKE
	4	RM-C54H-1C	RC HAND UNIT		H35SUE / X35HUE / X37SUE
	5	----------	BATTERY	AAA/R03(x2)	
	6	AEM1047-A02-E	FORM BAG		
	7	AEM3021-003A-E	DOCUMENT BAGS		
⚠	8	LCT1359-001A-U	INST BOOK	English	X35HKE
⚠	8	LCT1379-001A-U	INST BOOK	English, German, French, Spanish, Italian, Dutch	H35BUE / H35SUE
⚠	8	LCT1382-001A-U	INST BOOK	English, German, French, Spanish, Italian, Dutch	X35HUE
⚠	8	LCT1333-001A-U	INST BOOK	English	X37HIE / X37HKE
⚠	8	LCT1330-001A-U	INST BOOK	English, German, French, Spanish, Italian, Dutch	X37SUE
⚠	9	LCT1380-001A-U	INST BOOK	Danish, Finn, Swedish, Norwegian	H35SUE
⚠	9	LCT1383-001A-U	INST BOOK	Danish, Finn, Swedish, Norwegian	X35HUE
⚠	9	LCT1331-001A-U	INST BOOK	Danish, Finn, Swedish, Norwegian	X37SUE
⚠	10	LCT1381-001A-U	INST BOOK	Russian, Hungarian, Czech, Polish, Romanian	H35SUE
⚠	10	LCT1384-001A-U	INST BOOK	Russian, Hungarian, Czech, Polish, Romanian	X35HUE
⚠	10	LCT1332-001A-U	INST BOOK	Russian, Hungarian, Czech, Polish, Romanian	X37SUE